Part Name: Shock Absorber

Seemanshi Mall

DESCRIPTION

The bicycle has evolved significantly since its invention, with numerous innovations aimed at enhancing its performance and user comfort and experience. One such prominent innovation is the shock absorber or suspension system. These components are designed to reduce the impacts of rough terrain, enhancing rider comfort, safety and control while also increasing the bicycle's overall performance. As the speed of the cycle and the roughness of the road increases so does the shock of the impacts, the tires on their own are sometimes not enough to absorb the shocks and prevent the vehicle from jumping up and down, which causes the rider to lose control. The job of the shock absorbers is to prevent this by dampening all the road shocks/irregularities.

DIMENSIONS

1. Length =265 mm

2. The diameter of the holes at the ends=20 mm

3. Width of the ends=35 mm

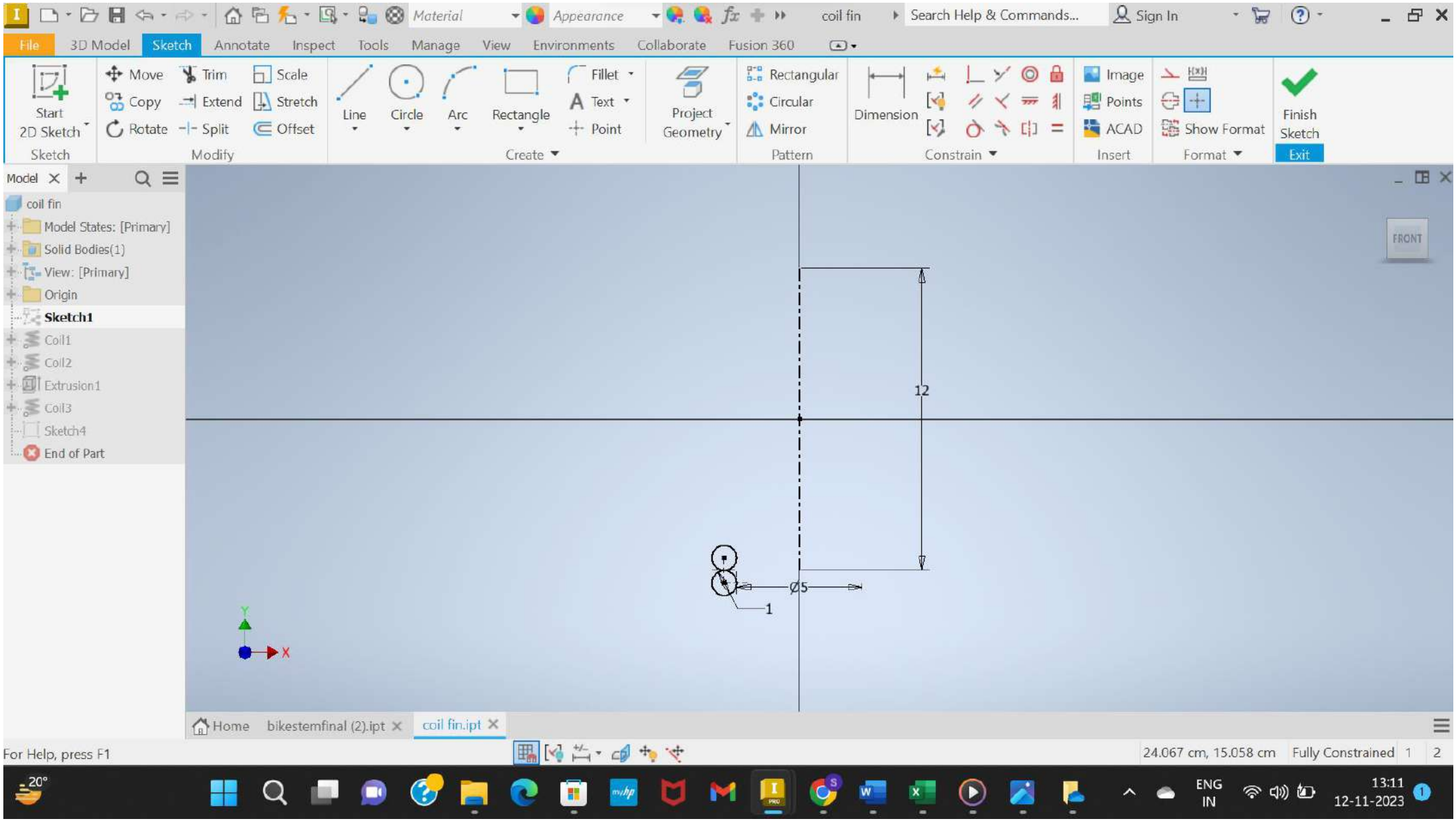
4. Radius of the coil= 30 mm

PROCESS OF CONSTRUCTION

1. **Coil Design:**
    - Initiated the design process by creating the coil in the XY plane using the specialized coil feature.
    - Defined specific parameters including revolution, height, pitch, transition angle, and flat angle to precisely shape the coil.
    - Utilized the project cut edges and extrusion features to flatten the coil ends, ensuring seamless connection with other components.
2. **Shock Body Design:**
    - Commenced the design of the shock body with the creation of a 2D sketch, subsequently extruding it to form a cylindrical structure.
    - Applied the threads feature to introduce realistic threads on the shock body, enhancing its authenticity.
    - Modelled the ball end by following a similar process of 2D sketching and extrusion, refining the edges with fillet features for a lifelike appearance.
    - Incorporated a strategically placed hole at one end to facilitate the passage of the shock shaft.
3. **Shock Shaft Design:**

- Developed the shock shaft, including the rod, with outer dimensions matching those of the coil for cohesive integration.
- Crafted the ends of the shock absorber with precision to ensure compatibility with the coil.

4. **Assembly:**
    - Executed a meticulous step-by-step assembly of the five components, employing constraints to align their axes accurately.
    - Implemented plane constraints to secure the proper connection points, ensuring a coherent and functional shock absorber model.
5. **Finalization:**
    - Culminated the design process with a comprehensive assembly, validating the coherence and alignment of each part.
    - Achieved a fully functional shock absorber model, where every element is seamlessly interconnected to deliver a cohesive and realistic representation.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View: [Primary]
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Coil1
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Sketch4
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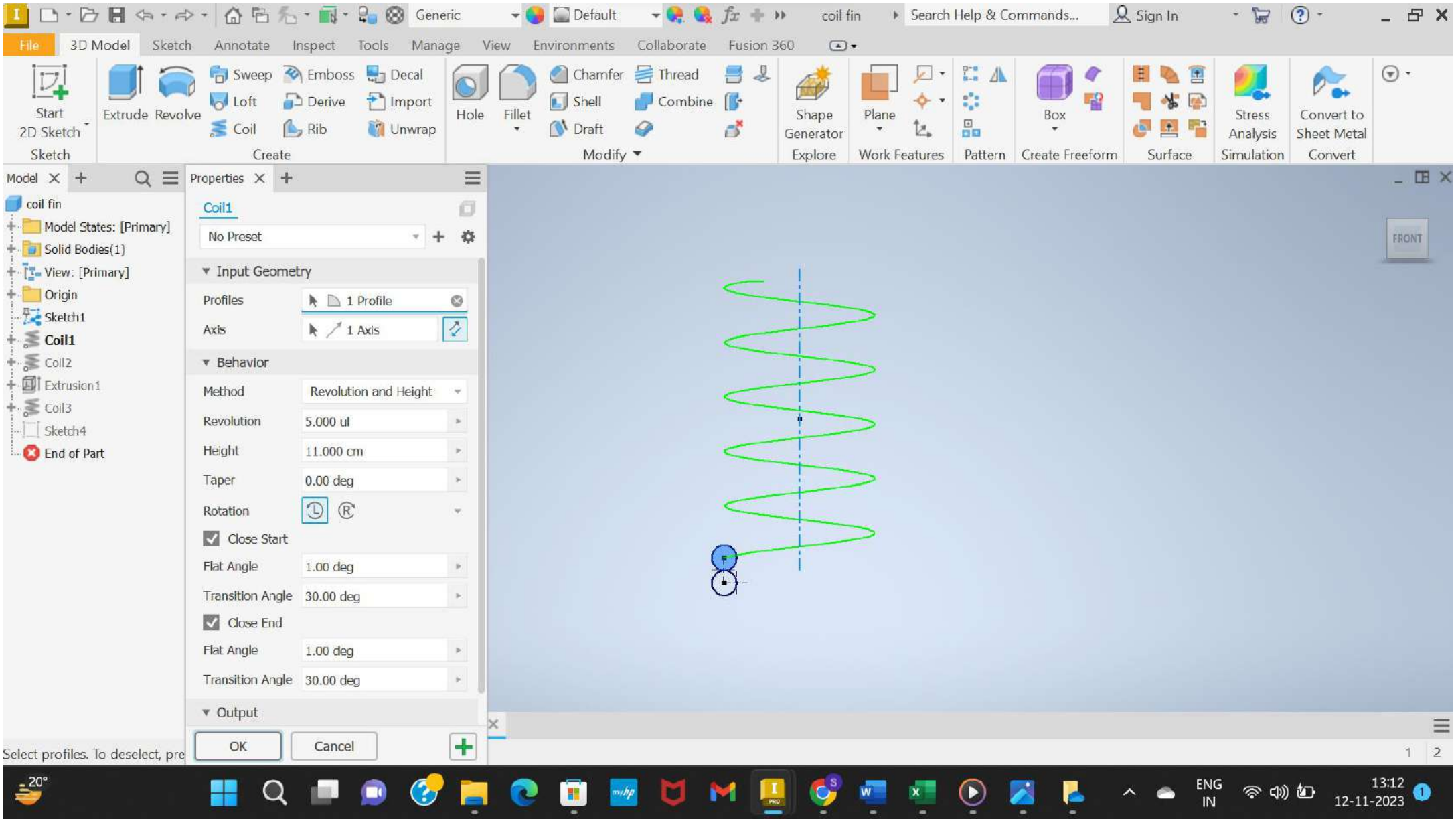
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Transition Angle
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Close End
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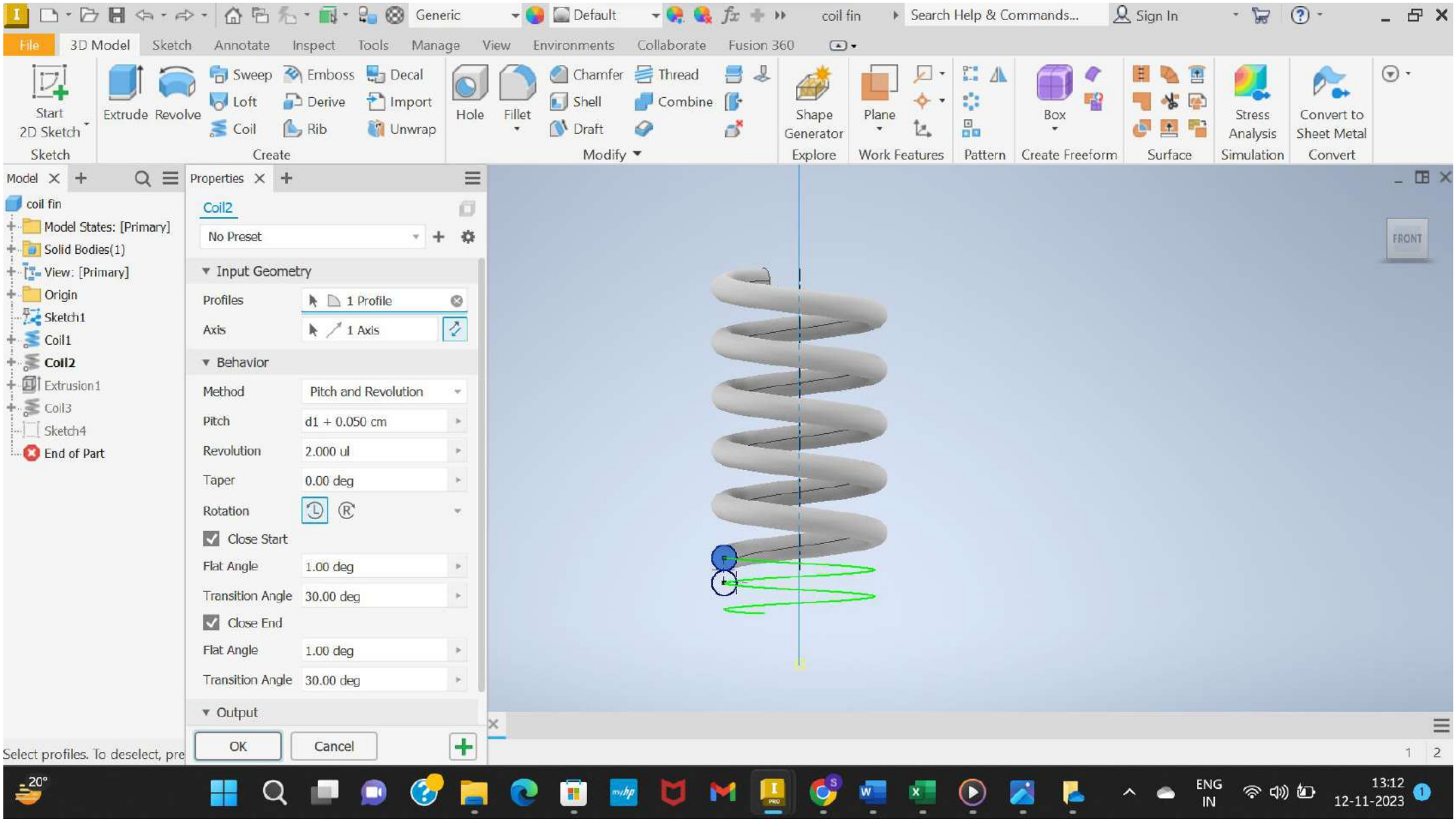
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Properties
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Input Geometry
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Axis
1 Axis
Behavior
Method
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Pitch
d1 + 0.050 cm
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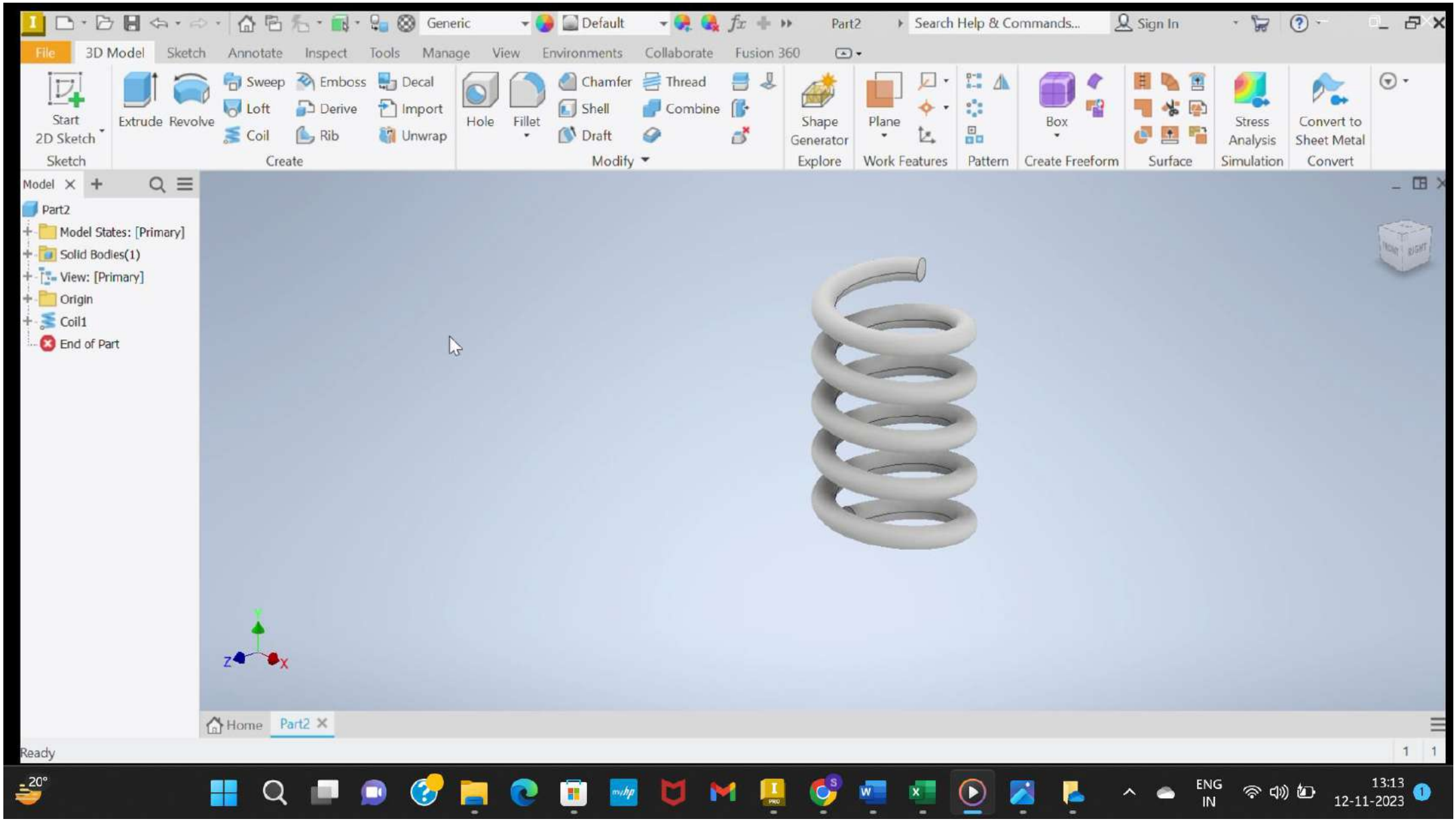
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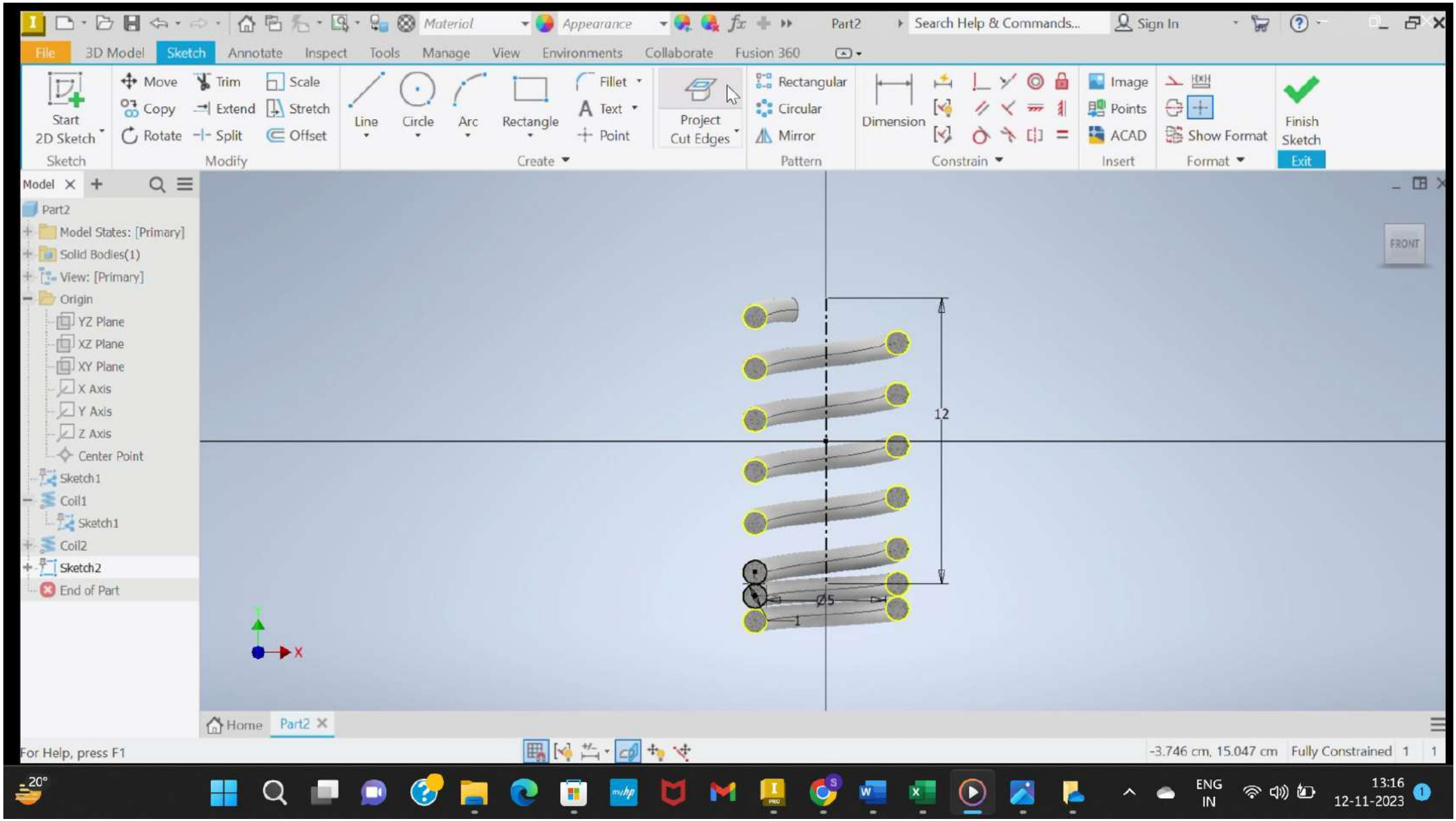
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View: [Primary]
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XZ Plane
XY Plane
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Z Axis
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Coil1
Sketch1
Coil2
Sketch2
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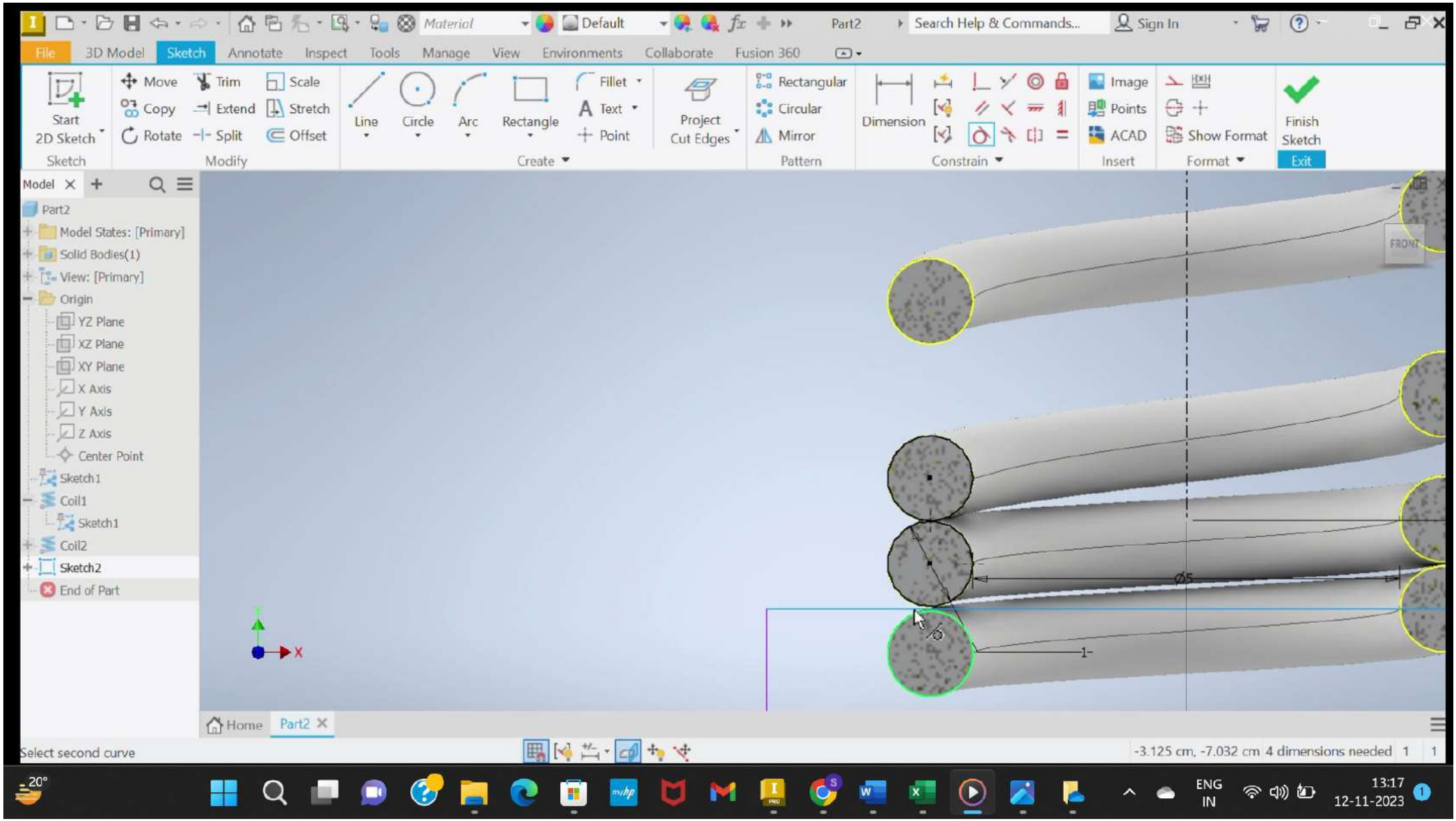
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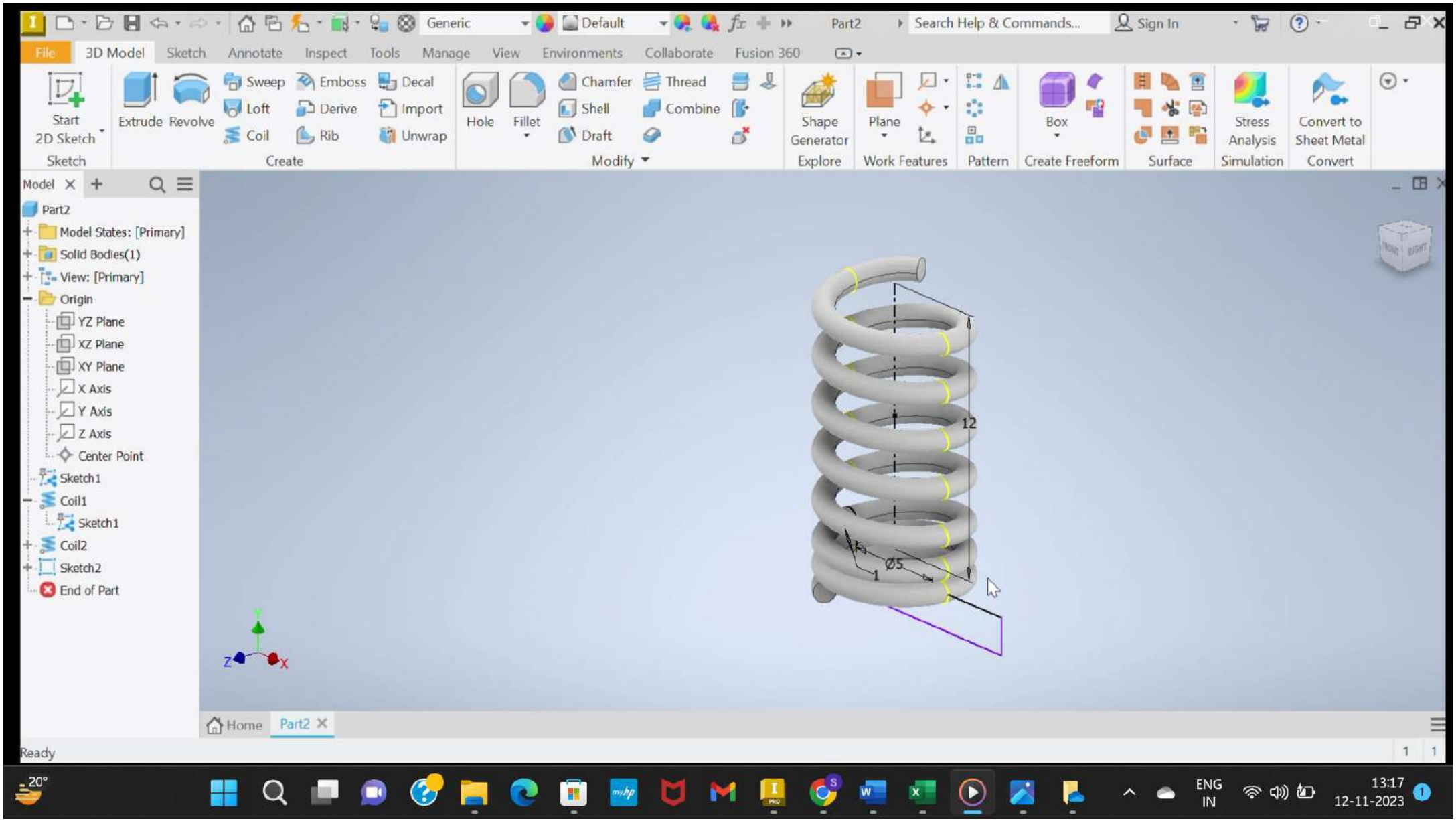
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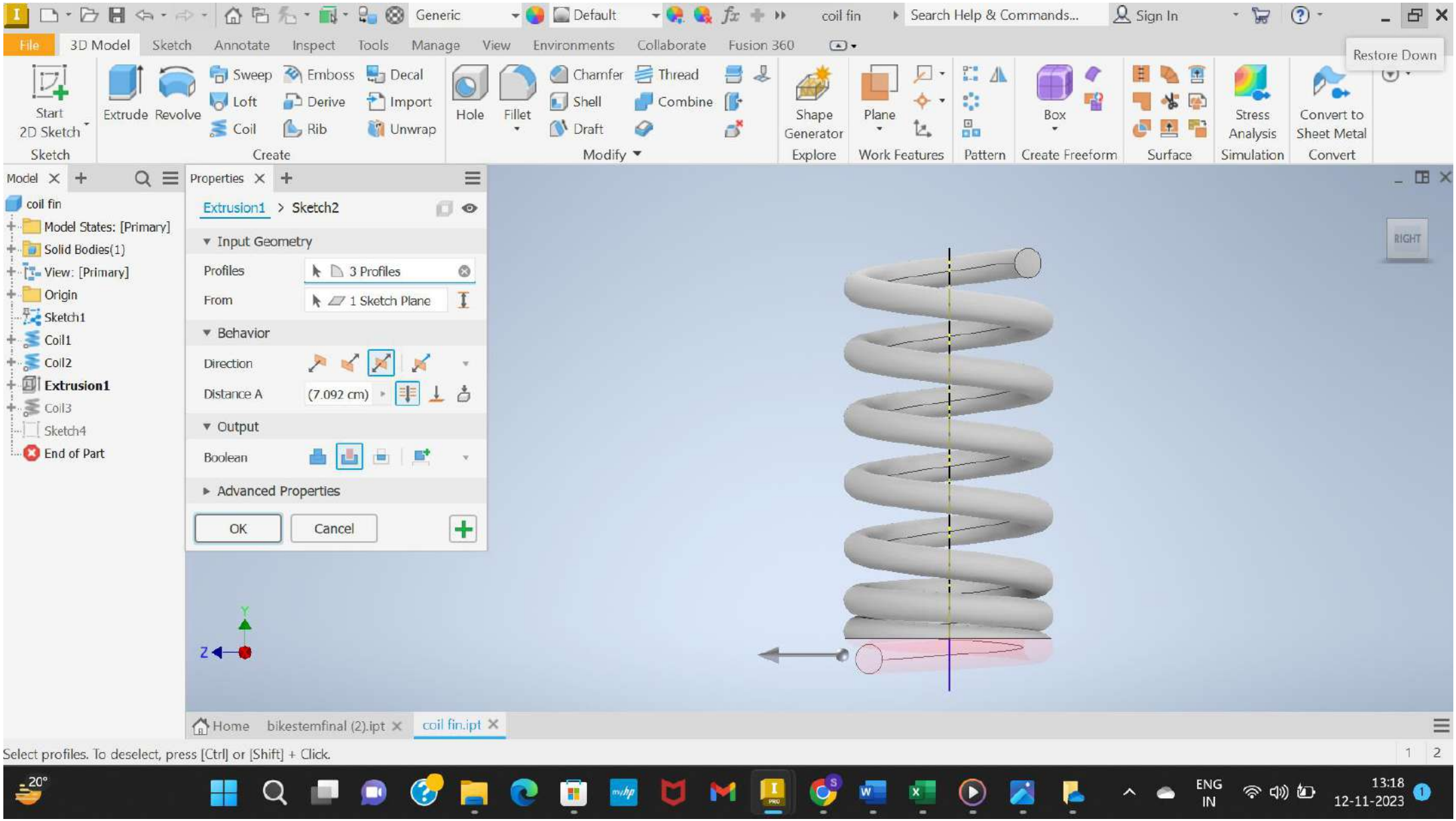
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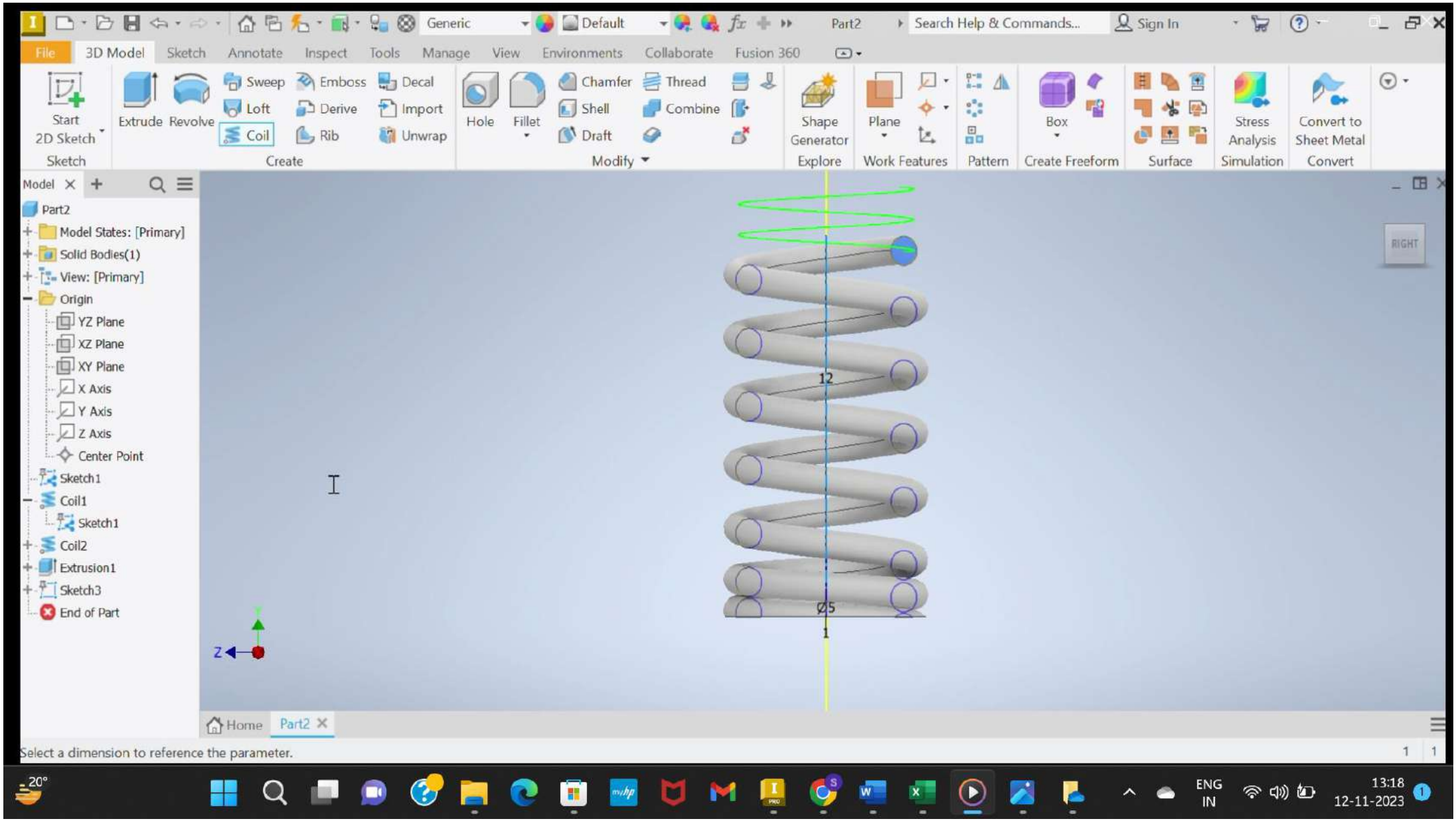
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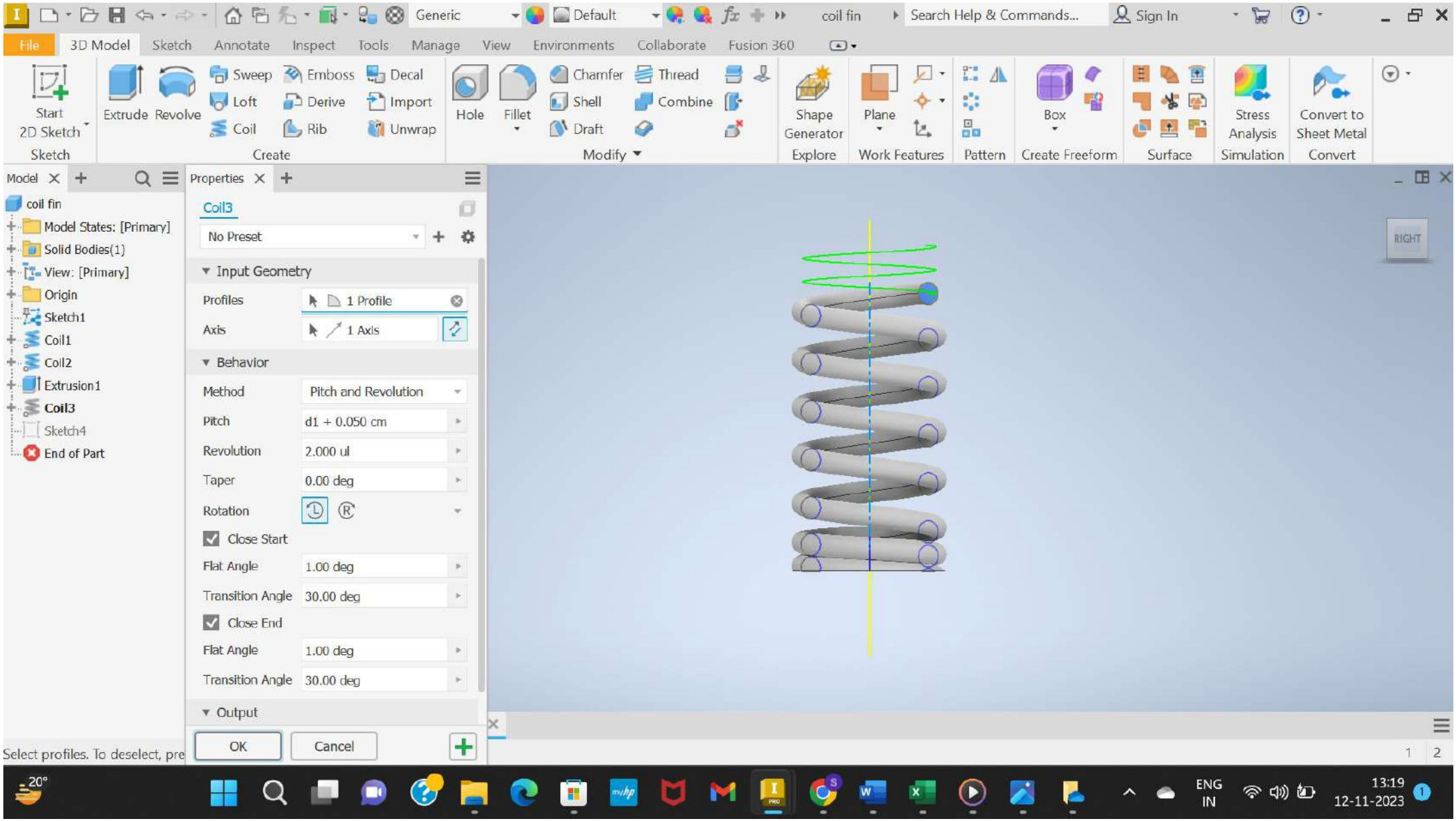
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1 Axis
Behavior
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Rotation
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Flat Angle
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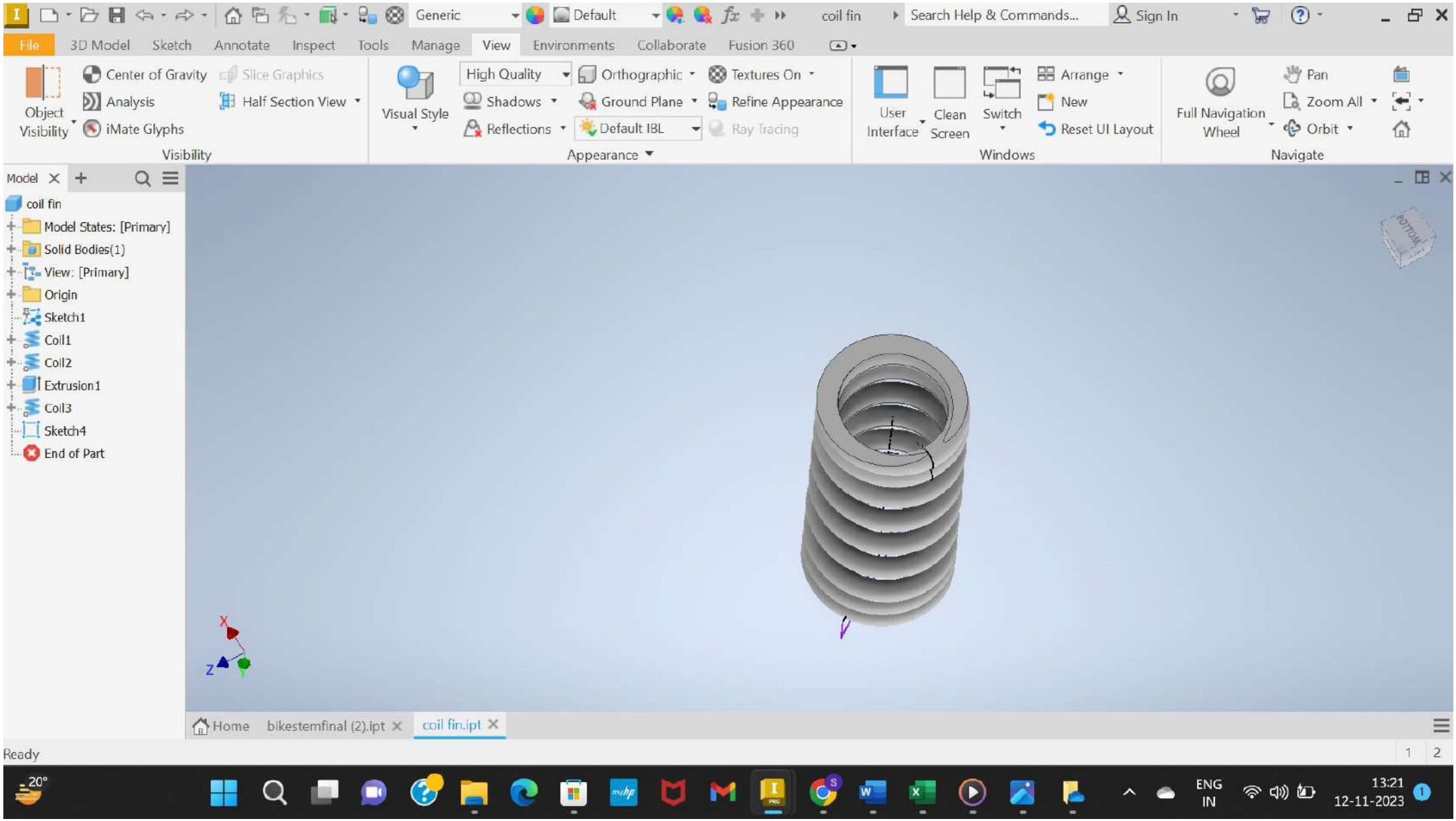
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Model States: [Primary]
Solid Bodies(1)
View: [Primary]
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Coil1
Coil2
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Sketch4
End of Part
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Ready
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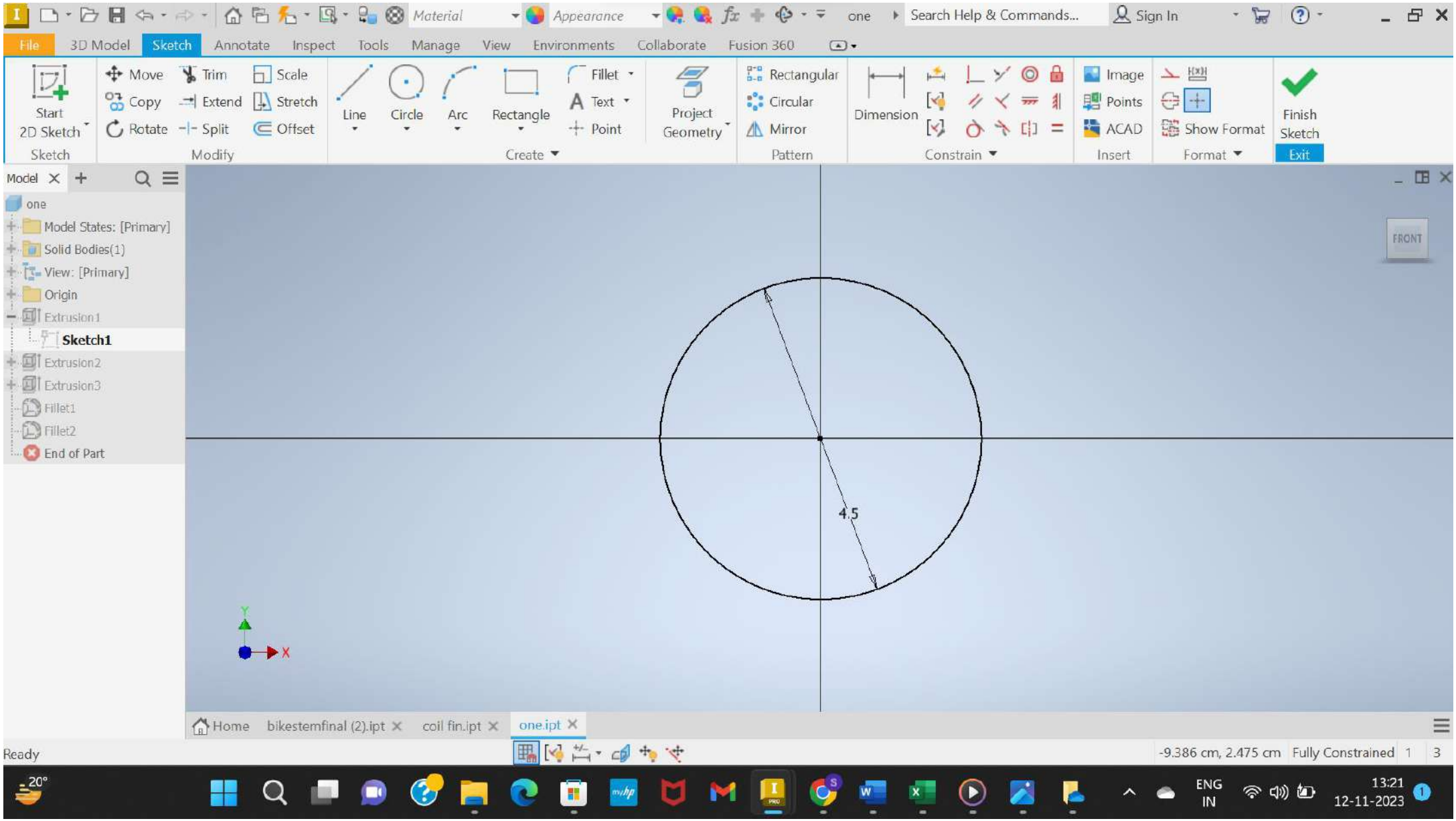
13:21
12-11-2023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Model States: [Primary]
Solid Bodies(1)
View: [Primary]
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Extrusion1
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Extrusion3
Fillet1
Fillet2
End of Part
FRONT
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bikestemfinal (2).ipt
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Ready
-9.386 cm, 2.475 cm
Fully Constrained
1
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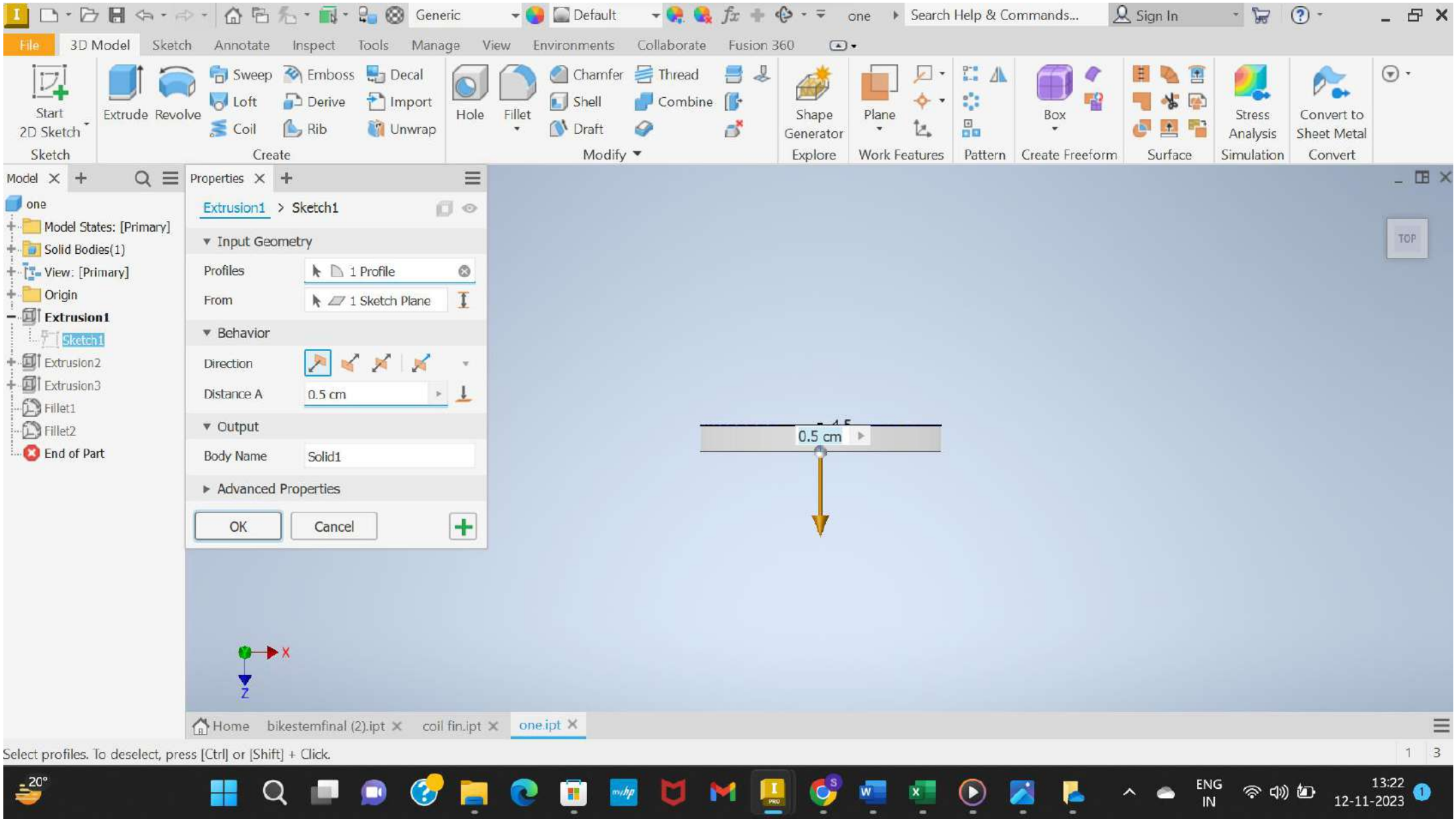
13:21
12-11-2023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Revolve
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Convert to Sheet Metal
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Explore
Work Features
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Create Freeform
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Convert
Model
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Model States: [Primary]
Solid Bodies(1)
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Origin
Extrusion1
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Extrusion2
Extrusion3
Fillet1
Fillet2
End of Part
Properties
Extrusion1 > Sketch1
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Body Name
Solid1
Advanced Properties
OK
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TOP
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coil fin.ipt
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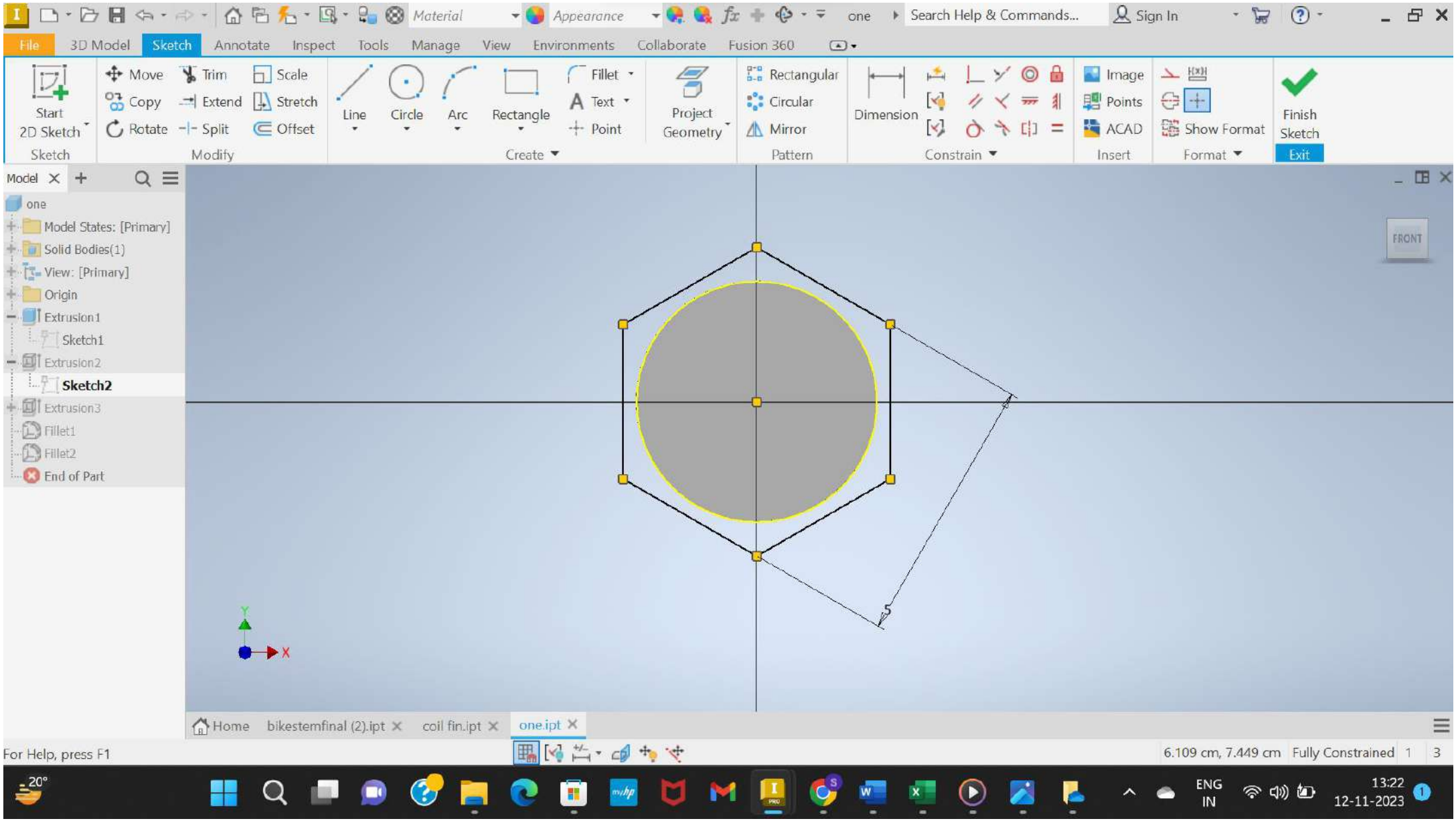
Material
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Collaborate
Fusion 360
Start 2D Sketch
Move
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Rotate
Trim
Extend
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Scale
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Show Format
Finish Sketch
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Modify
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Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
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Sketch2
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Fillet1
Fillet2
End of Part
FRONT
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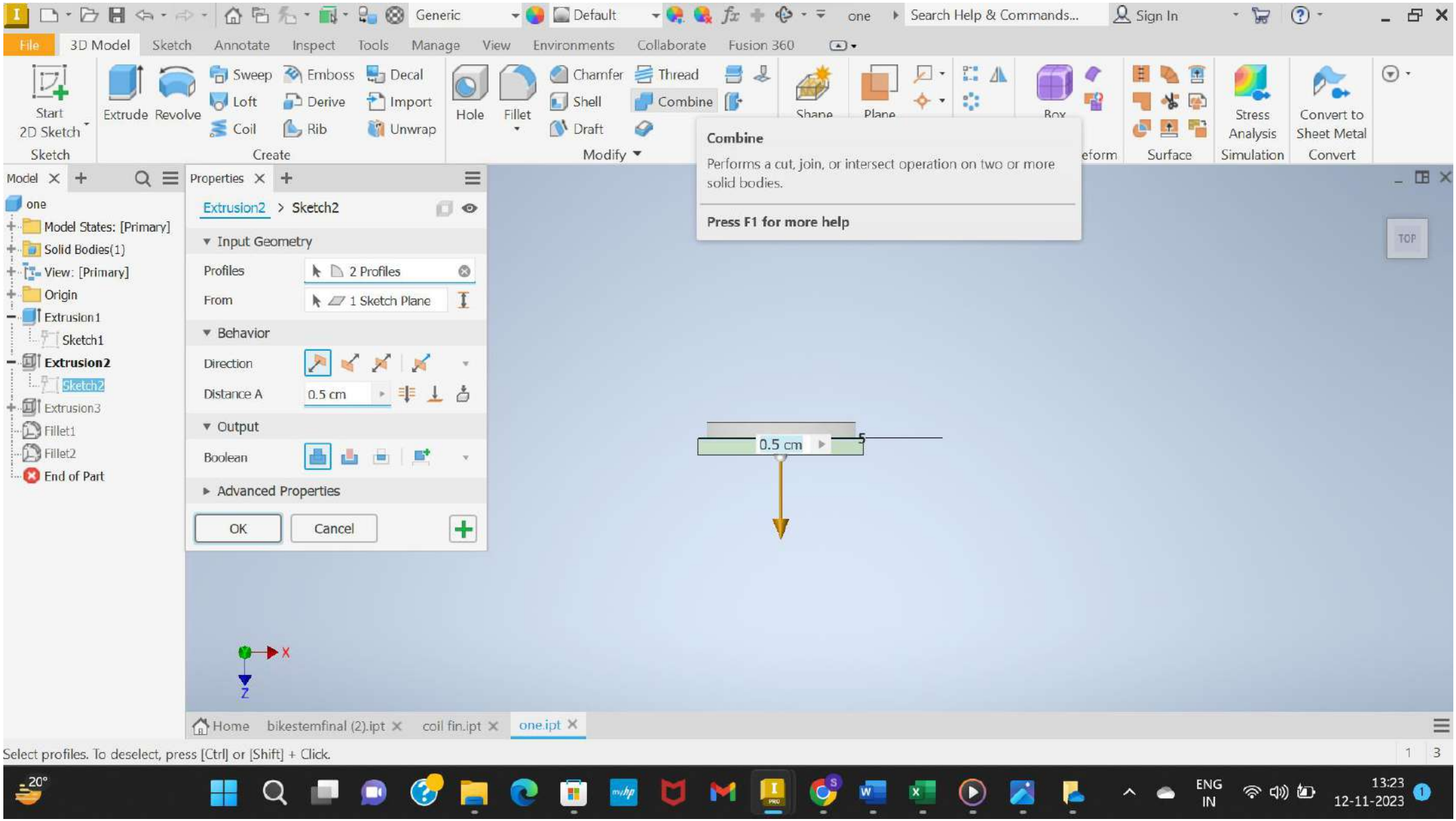
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
For Help, press F1
6.109 cm, 7.449 cm
Fully Constrained
1
3
20°
ENG
IN
13:22
12-11-2023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Start 2D Sketch
Extrude
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Stress Analysis Simulation
Convert to Sheet Metal
Sketch
Create
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Combine
Performs a cut, join, or intersect operation on two or more solid bodies.
Press F1 for more help
Model
one
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
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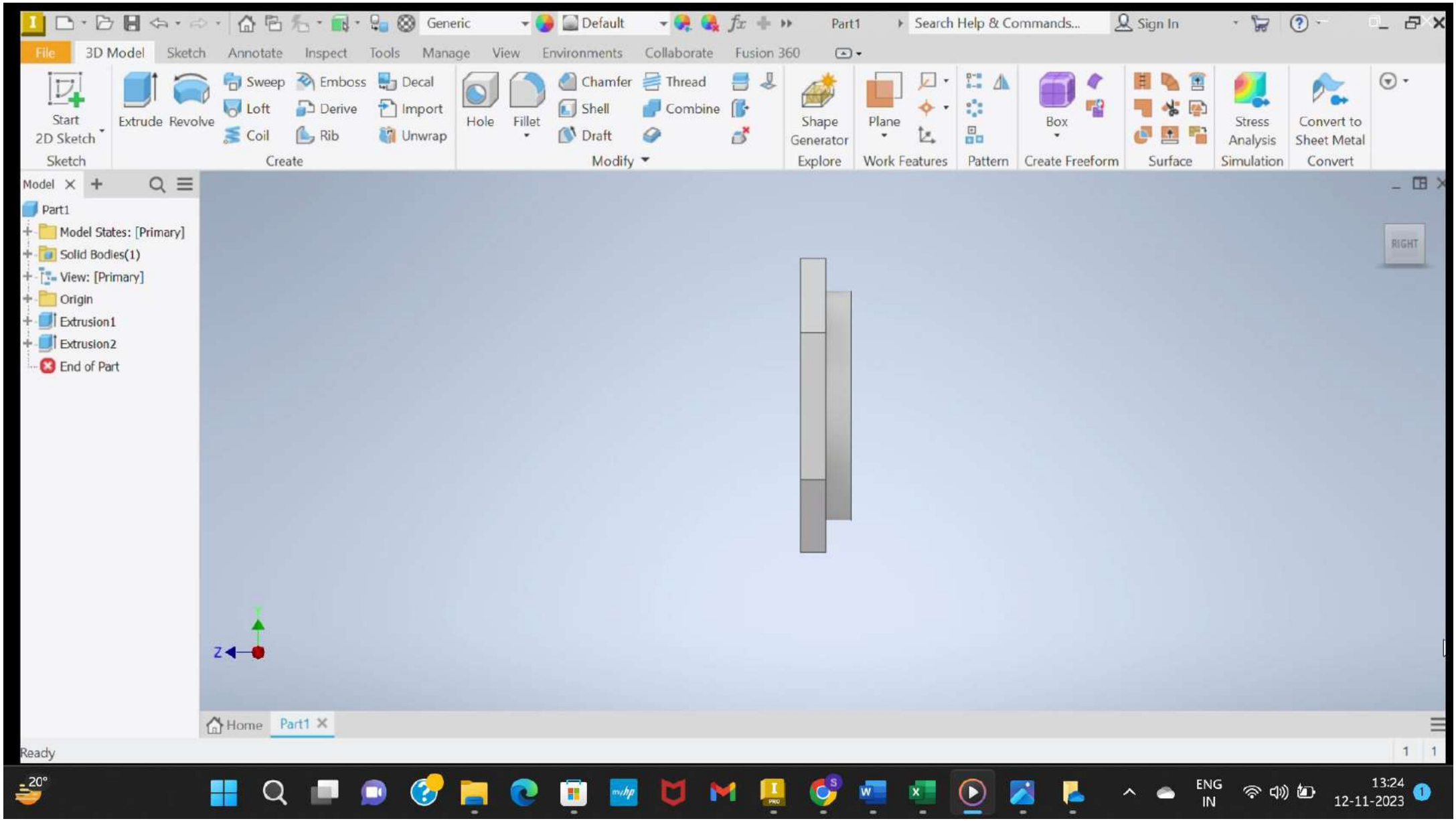
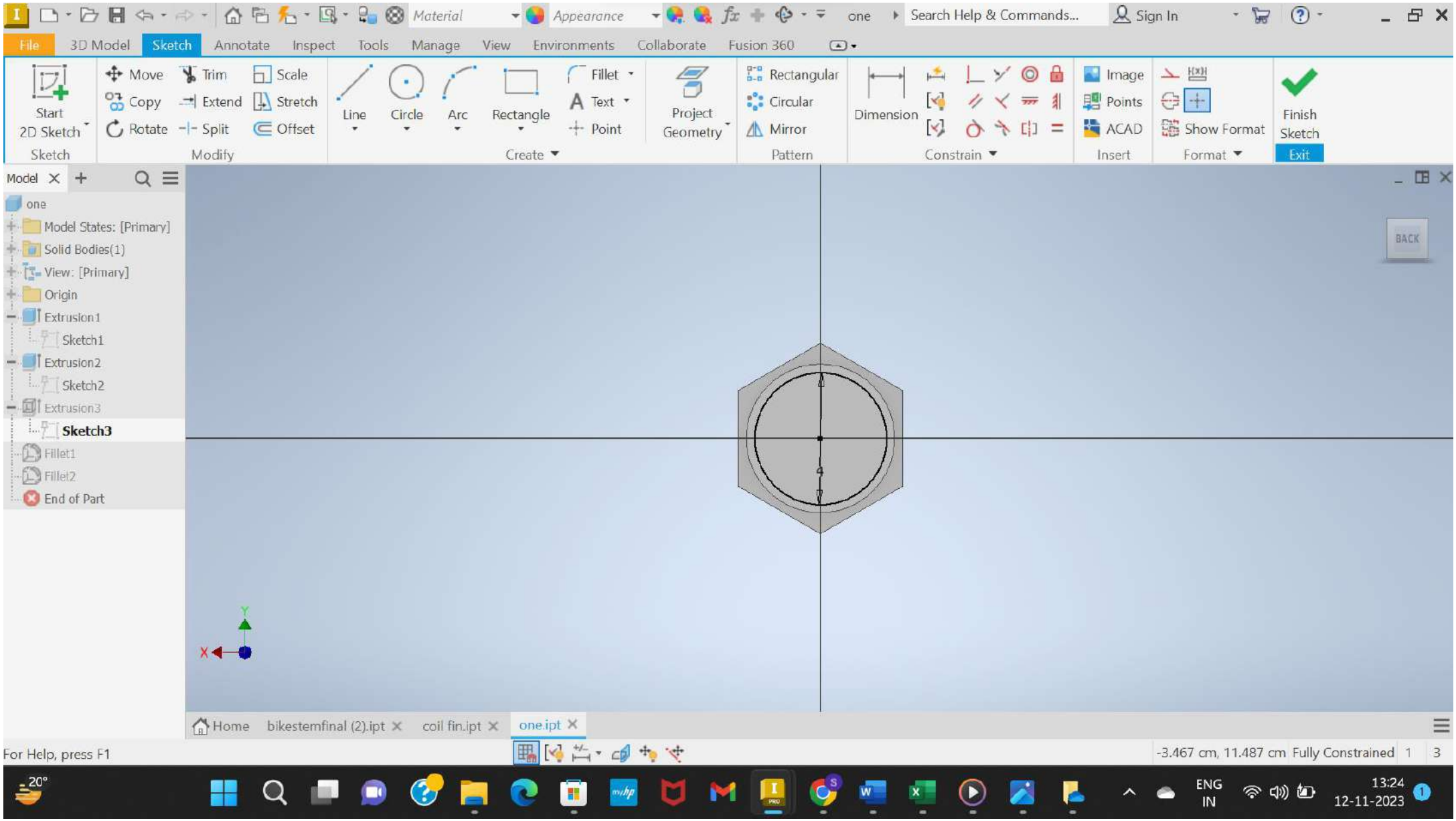
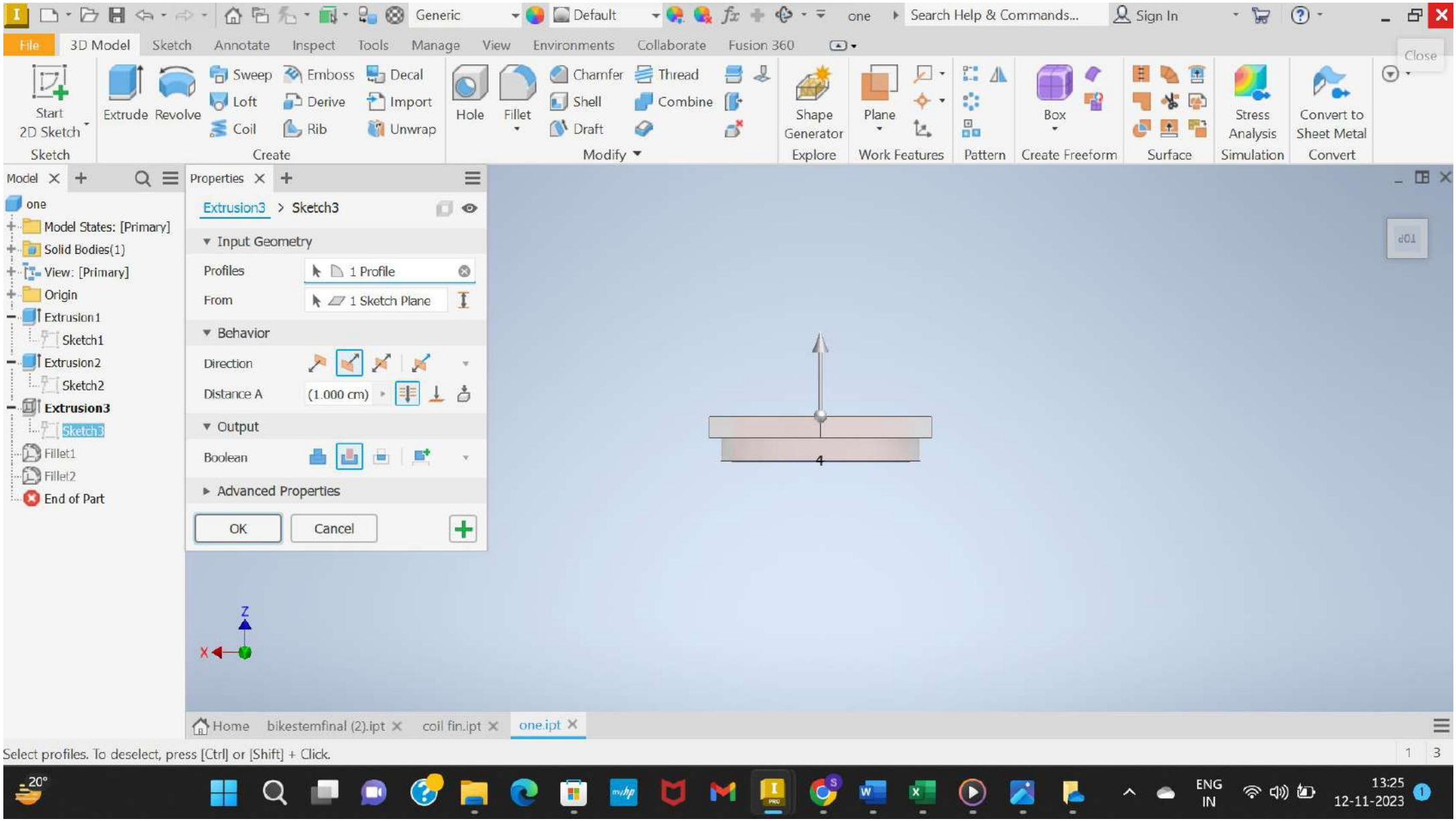
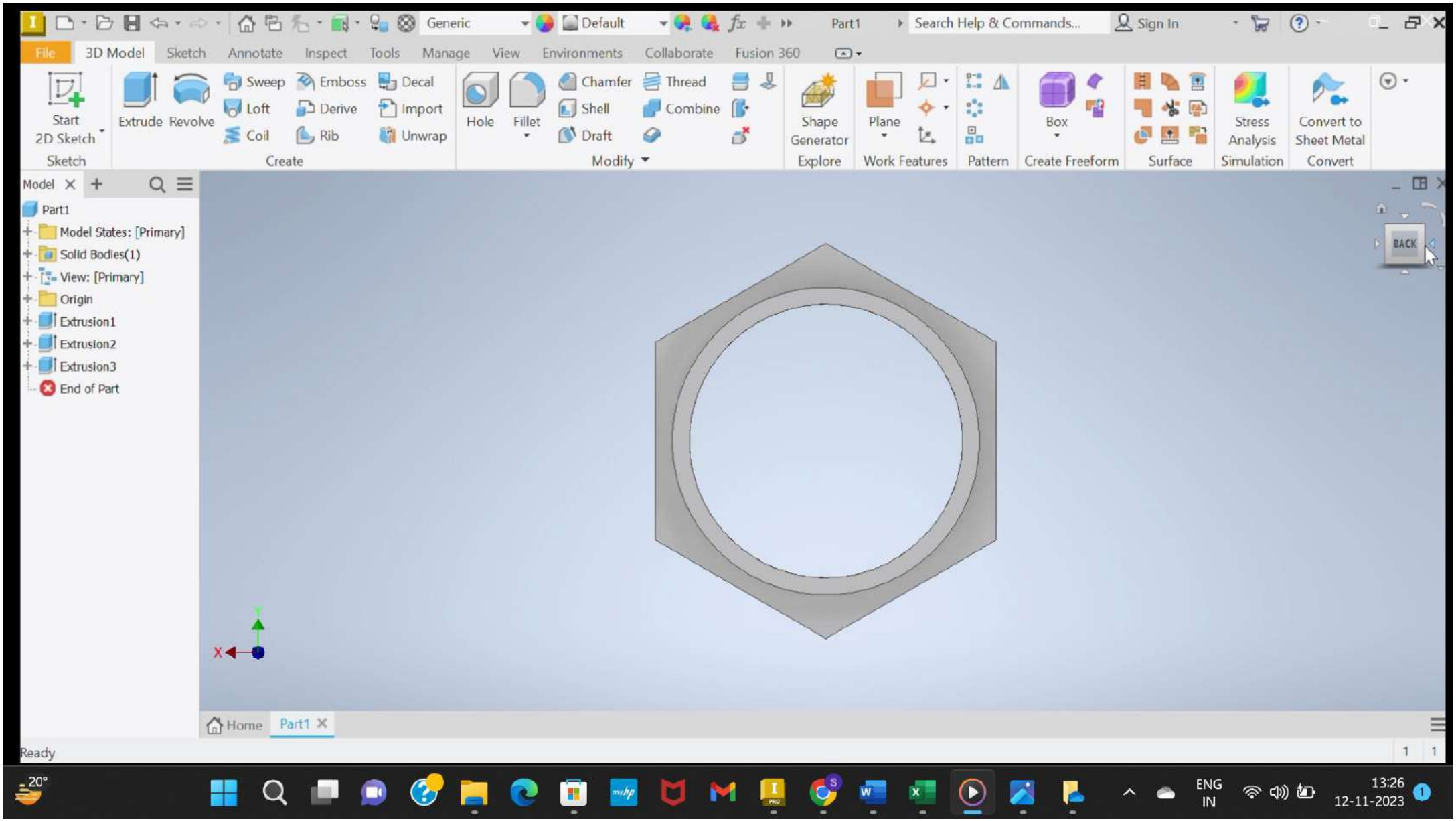
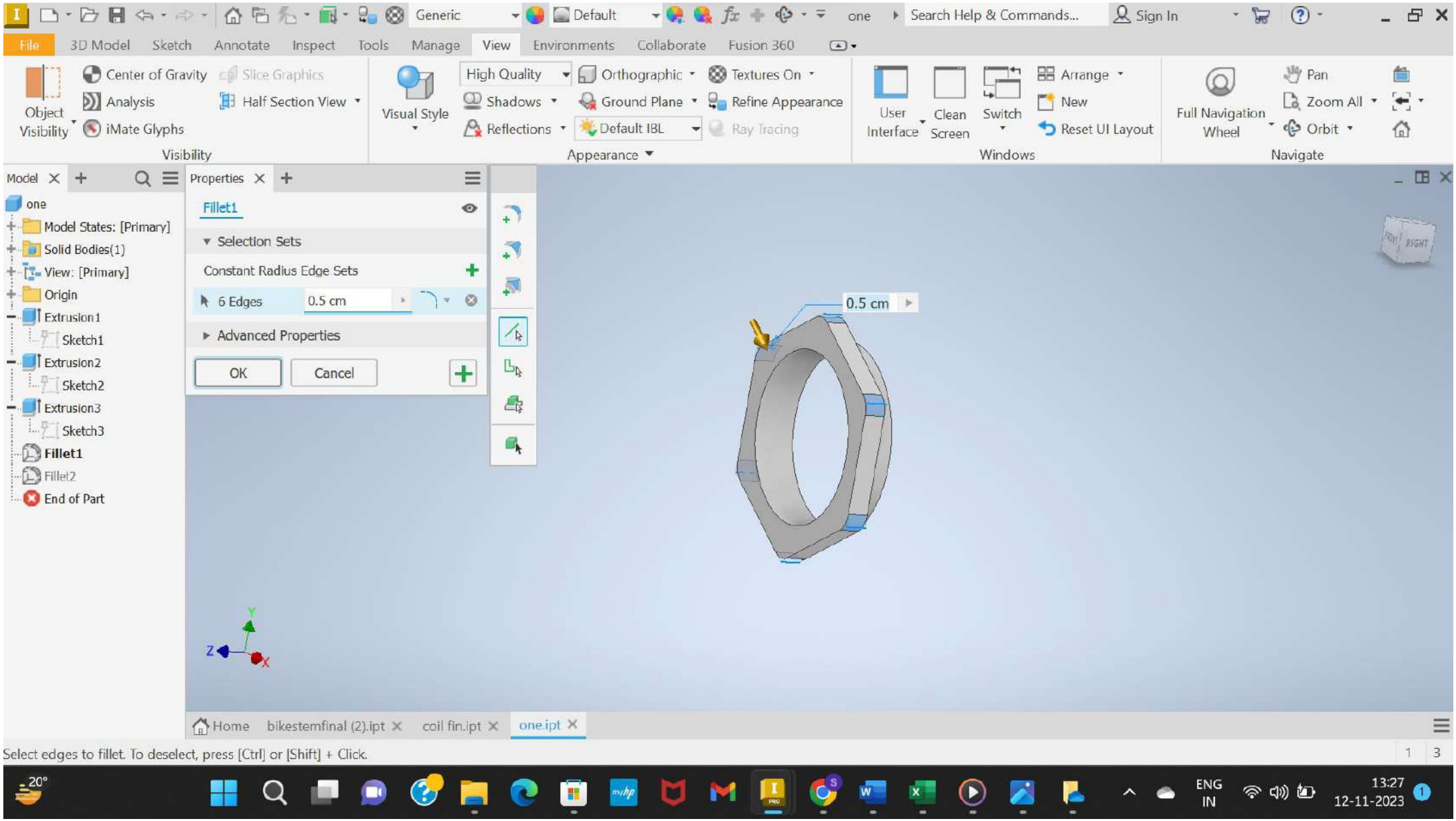
Extrusion3
Fillet1
Fillet2
End of Part
Properties
Extrusion2 > Sketch2
Input Geometry
Profiles
2 Profiles
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Boolean
Advanced Properties
OK
Cancel
0.5 cm
TOP
X
Z
Home
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
20°
ENG
IN
13:23
12-11-2023

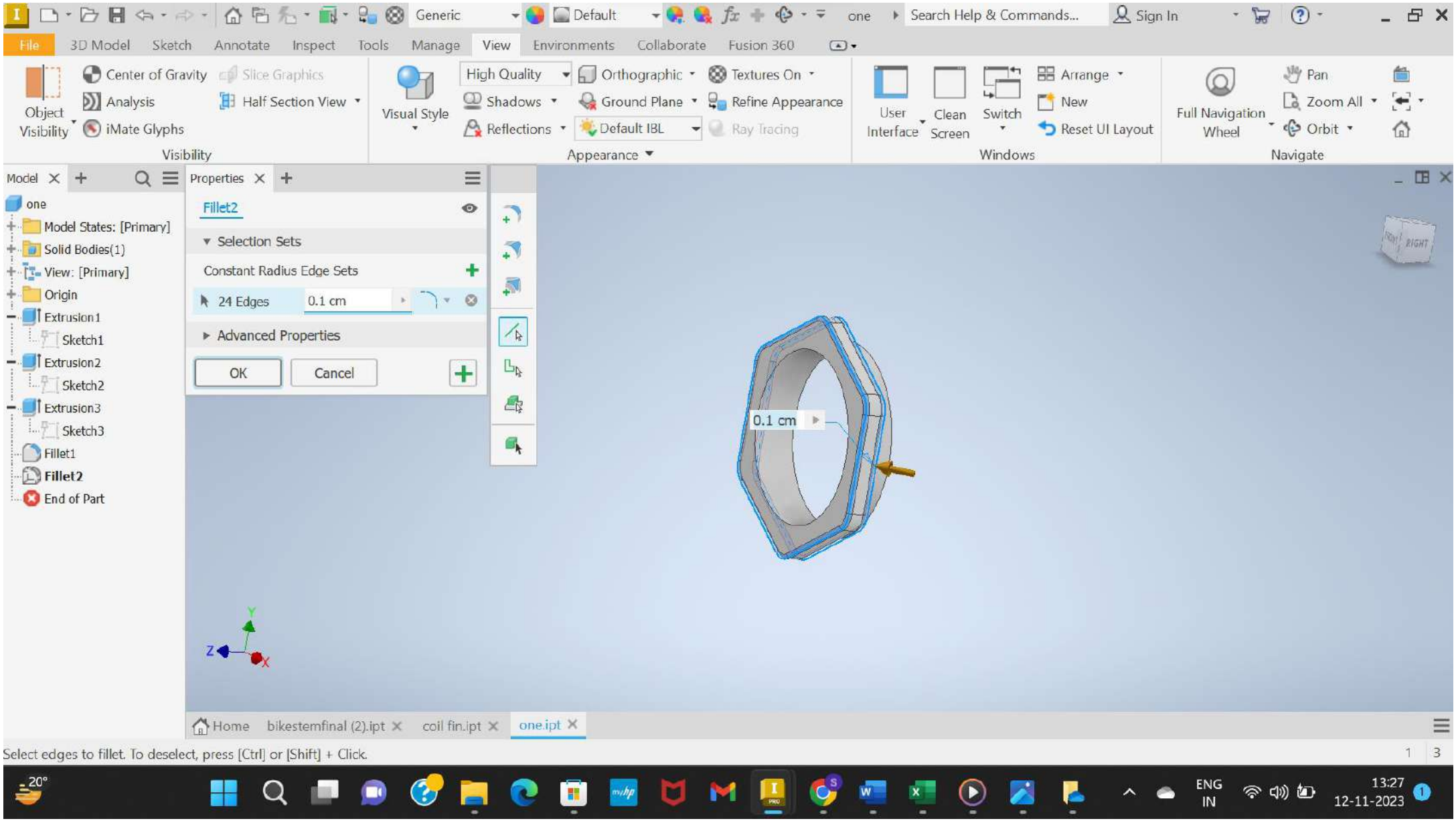

Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Create
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Modify
Shape Generator
Explore
Plane
Work Features
Pattern
Box
Create Freeform
Surface
Stress Analysis
Simulation
Convert to Sheet Metal
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Extrusion2
End of Part
RIGHT
Z
Home
Part1
Ready
20°
ENG
IN
13:24
12-11-2023

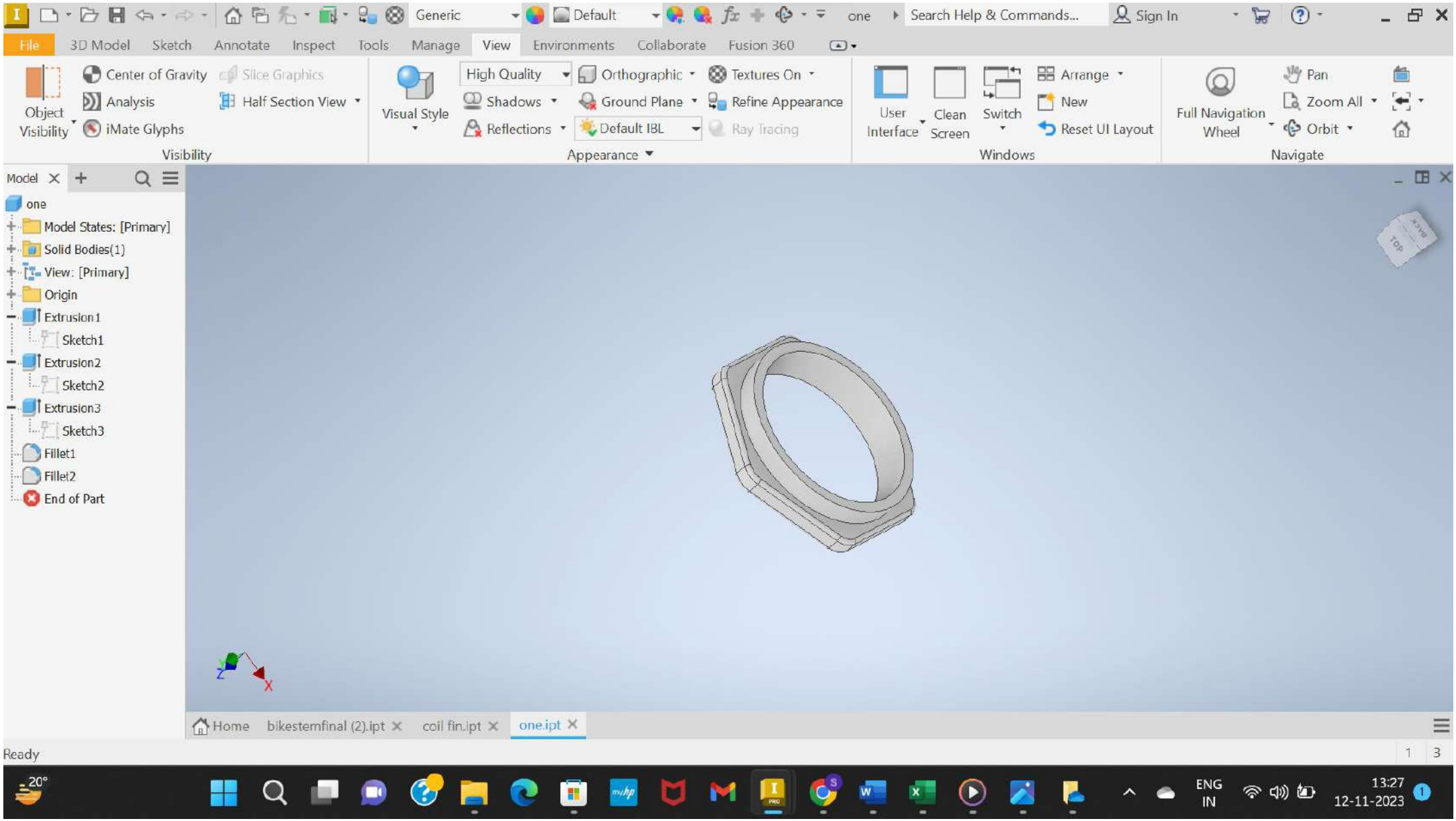

Material
Appearance
one
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
one
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Extrusion2
Sketch2
Extrusion3
Sketch3
Fillet1
Fillet2
End of Part
BACK
Home
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
For Help, press F1
-3.467 cm, 11.487 cm Fully Constrained
20°
ENG
IN
13:24
12-11-2023

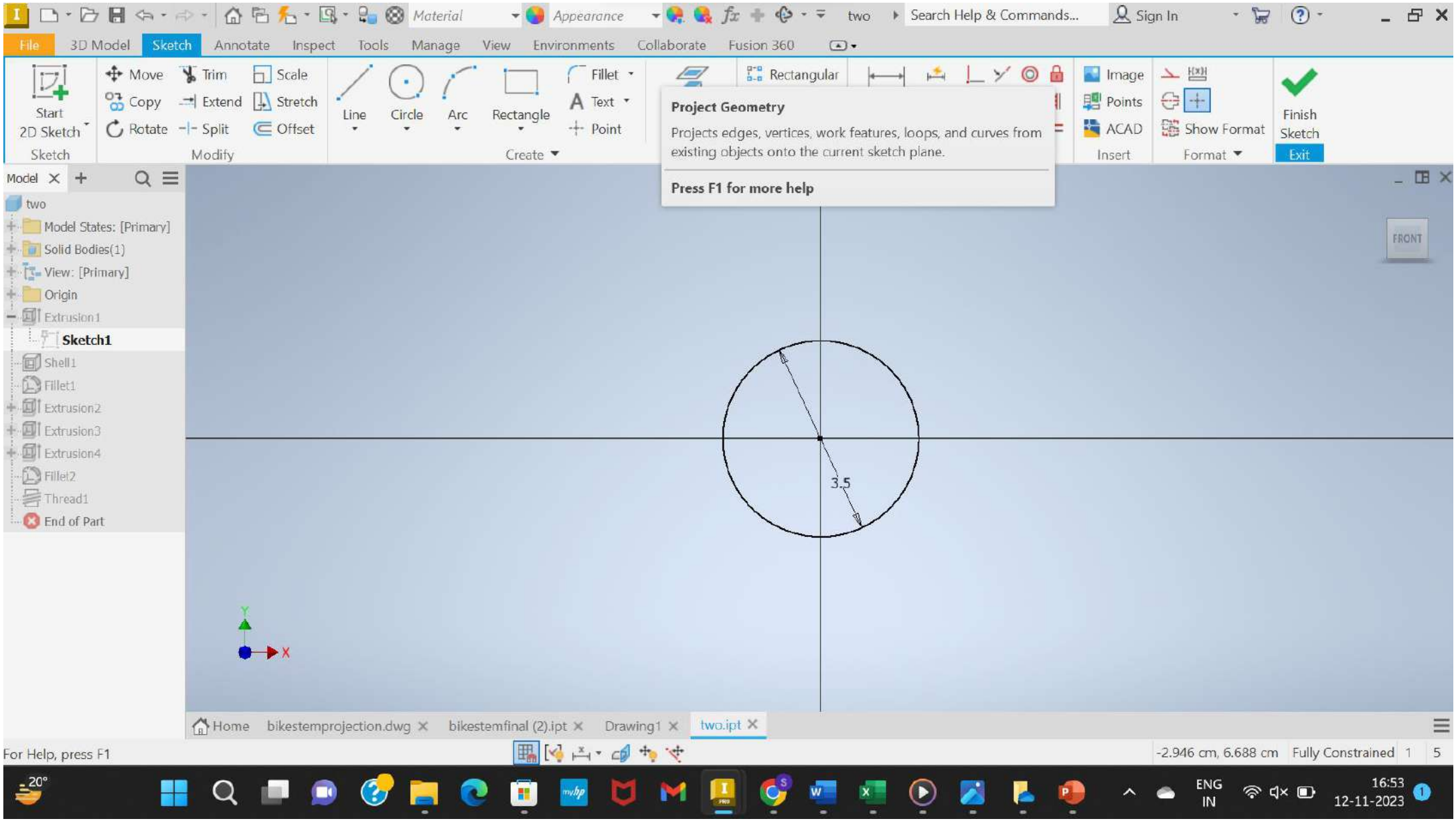

Generic
Default
one
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Close
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
one
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Extrusion2
Sketch2
Extrusion3
Sketch3
Fillet1
Fillet2
End of Part
Properties
Extrusion3 > Sketch3
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
(1.000 cm)
Output
Boolean
Advanced Properties
OK
Cancel
4
Z
X
Home
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
20°
ENG
IN
13:25
12-11-2023

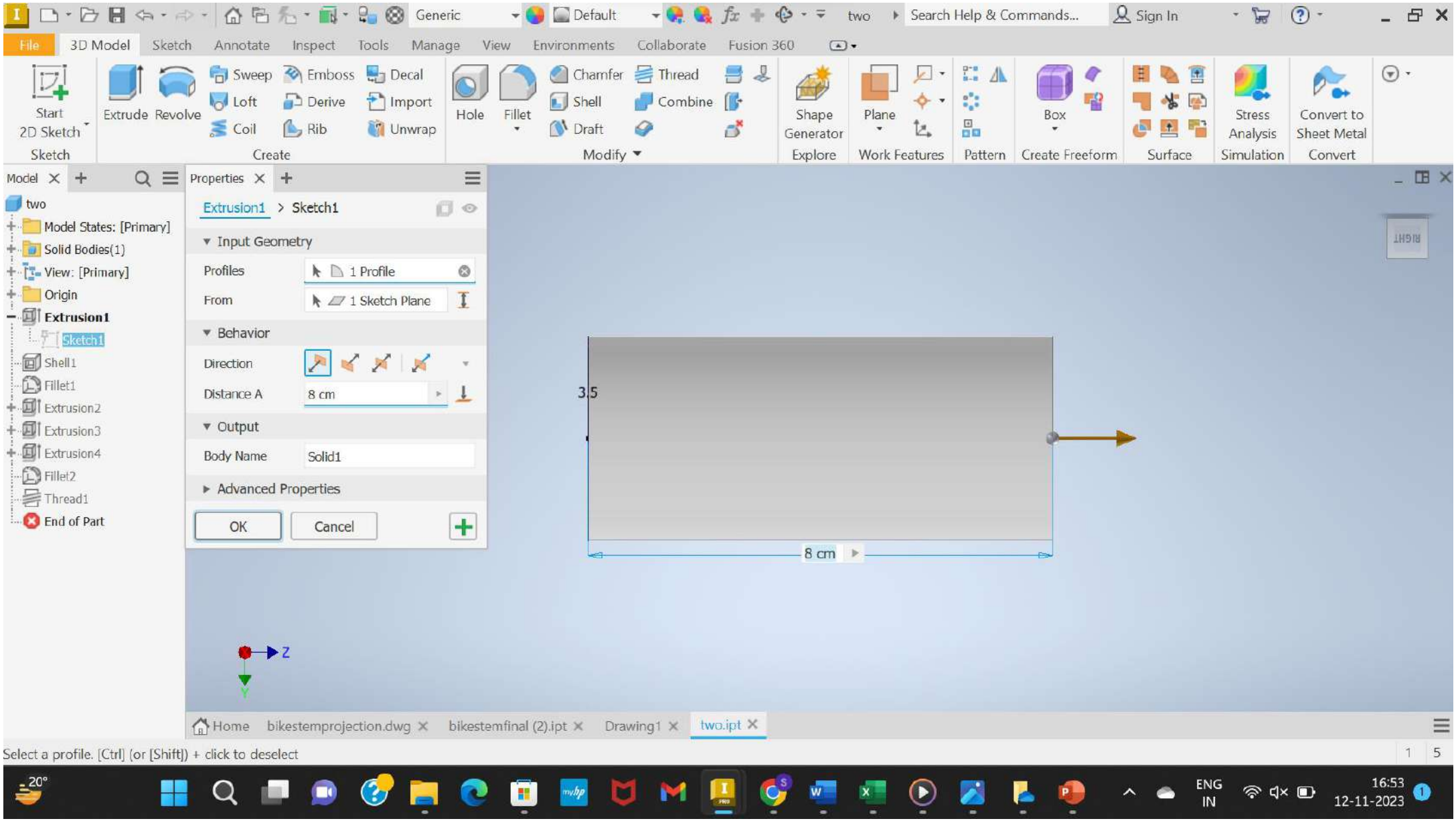

Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Extrusion2
Extrusion3
End of Part
BACK
X
Home
Part1
Ready
ENG
IN
13:26
12-11-2023

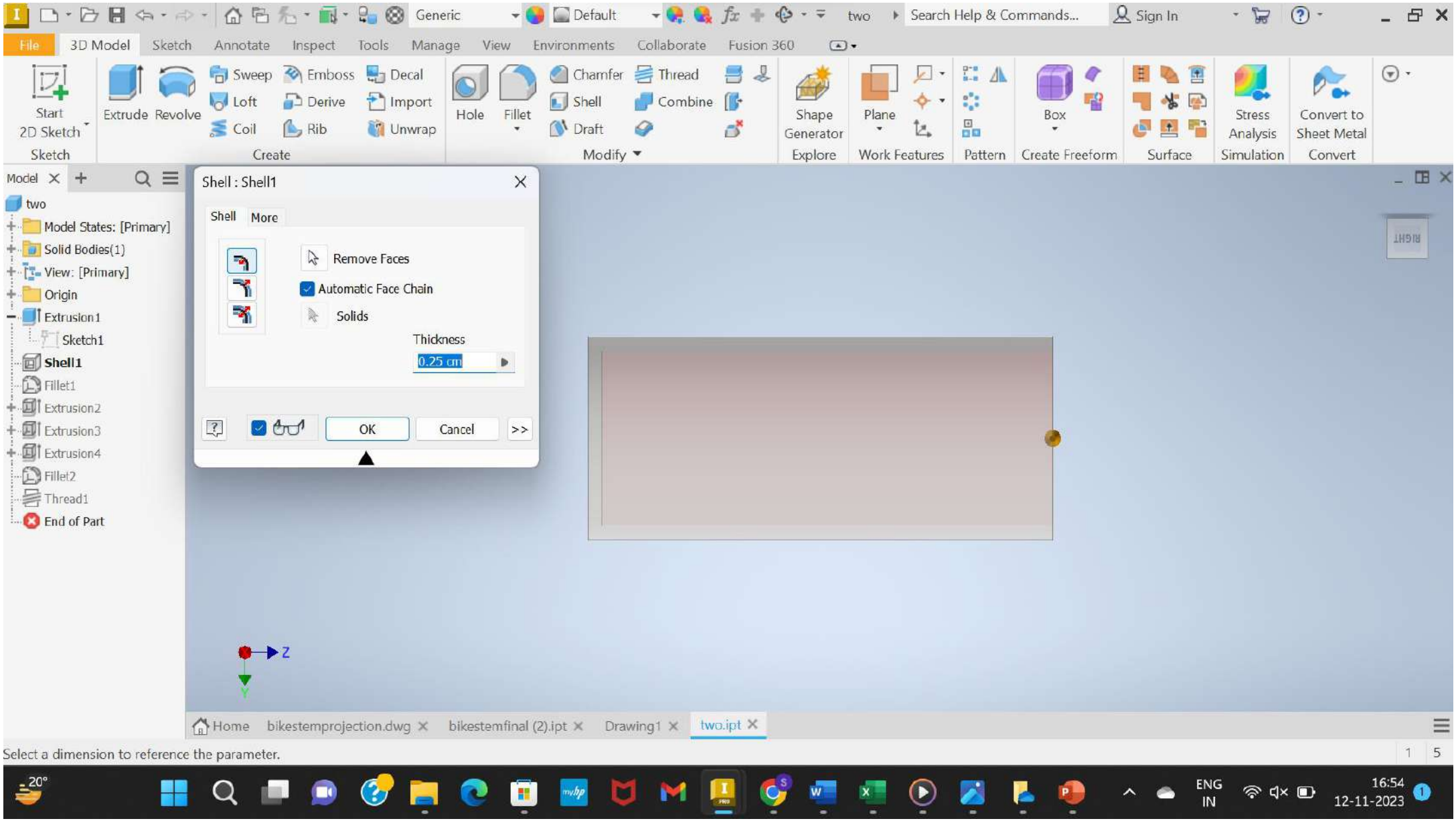

Generic
Default
one
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
one
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Extrusion2
Sketch2
Extrusion3
Sketch3
Fillet1
Fillet2
End of Part
Properties
Fillet1
Selection Sets
Constant Radius Edge Sets
6 Edges
0.5 cm
Advanced Properties
OK
Cancel
0.5 cm
Home
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
Select edges to fillet. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
13:27
12-11-2023

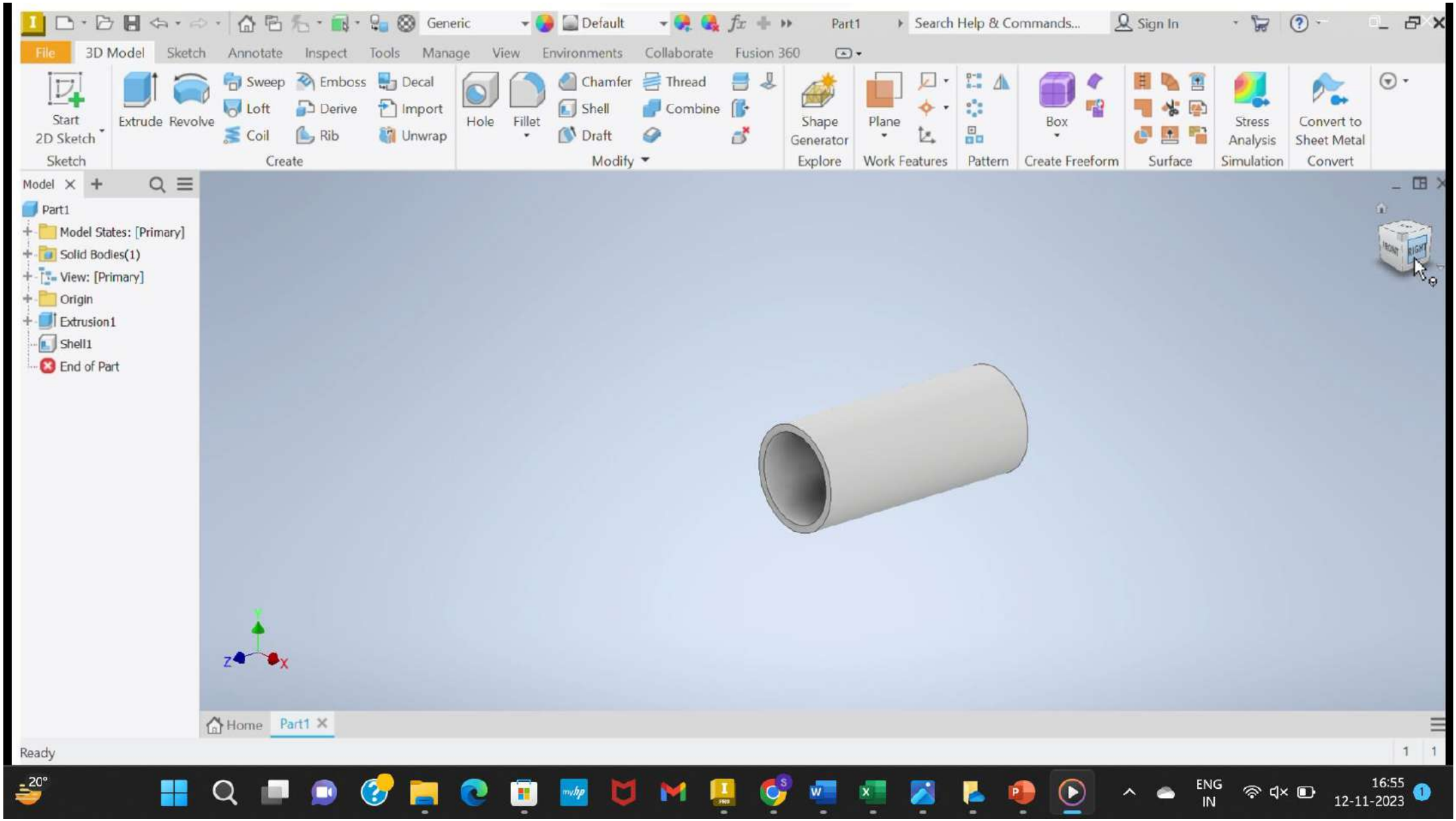

Generic
Default
one
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
one
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Extrusion2
Sketch2
Extrusion3
Sketch3
Fillet1
Fillet2
End of Part
Properties
Fillet2
Selection Sets
Constant Radius Edge Sets
24 Edges
0.1 cm
Advanced Properties
OK
Cancel
0.1 cm
Home
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
Select edges to fillet. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
13:27
12-11-2023

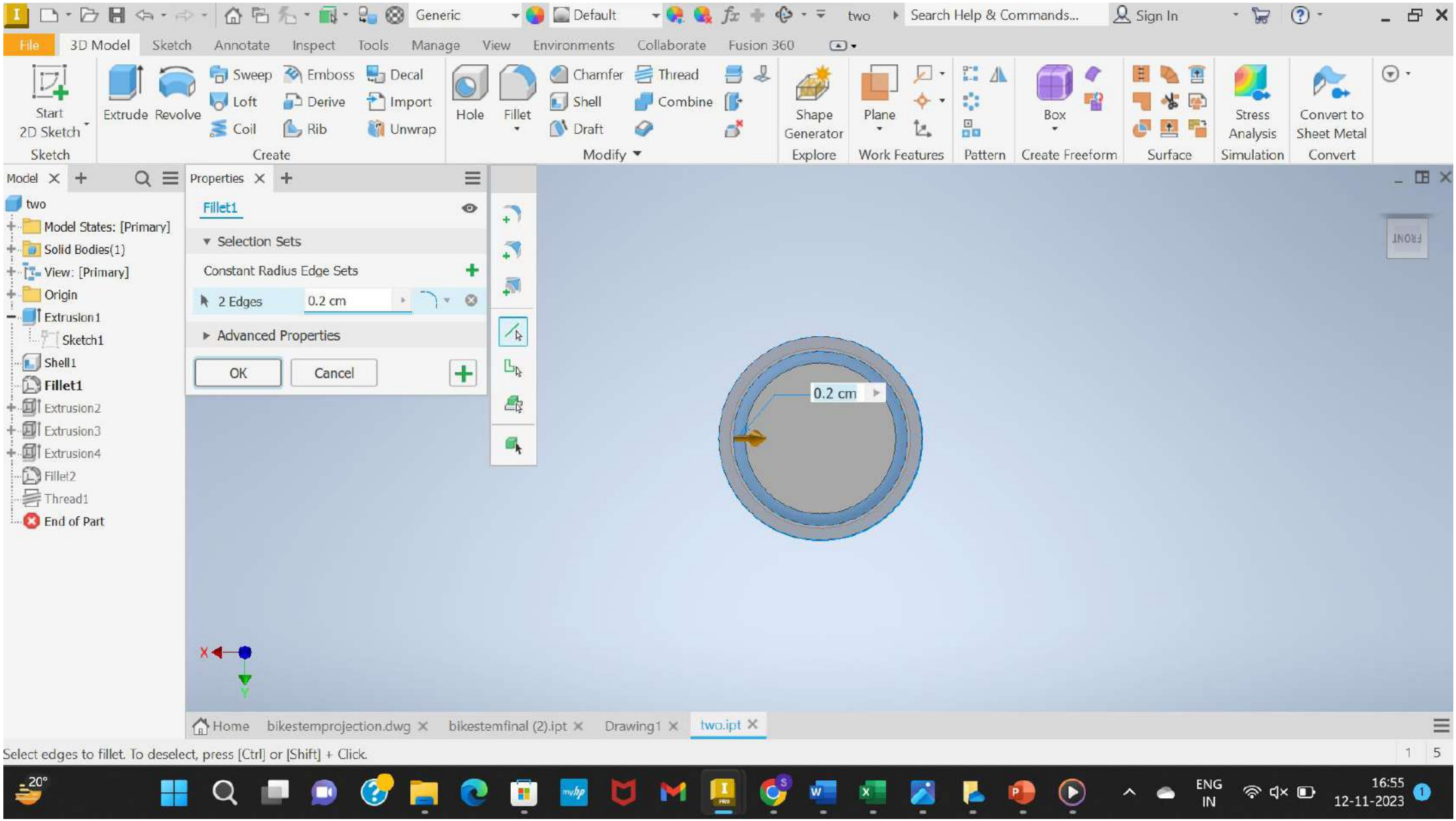

Generic
Default
one
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
one
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Extrusion2
Sketch2
Extrusion3
Sketch3
Fillet1
Fillet2
End of Part
Home
bikestemfinal (2).ipt
coil fin.ipt
one.ipt
Ready
ENG
IN
13:27
12-11-2023

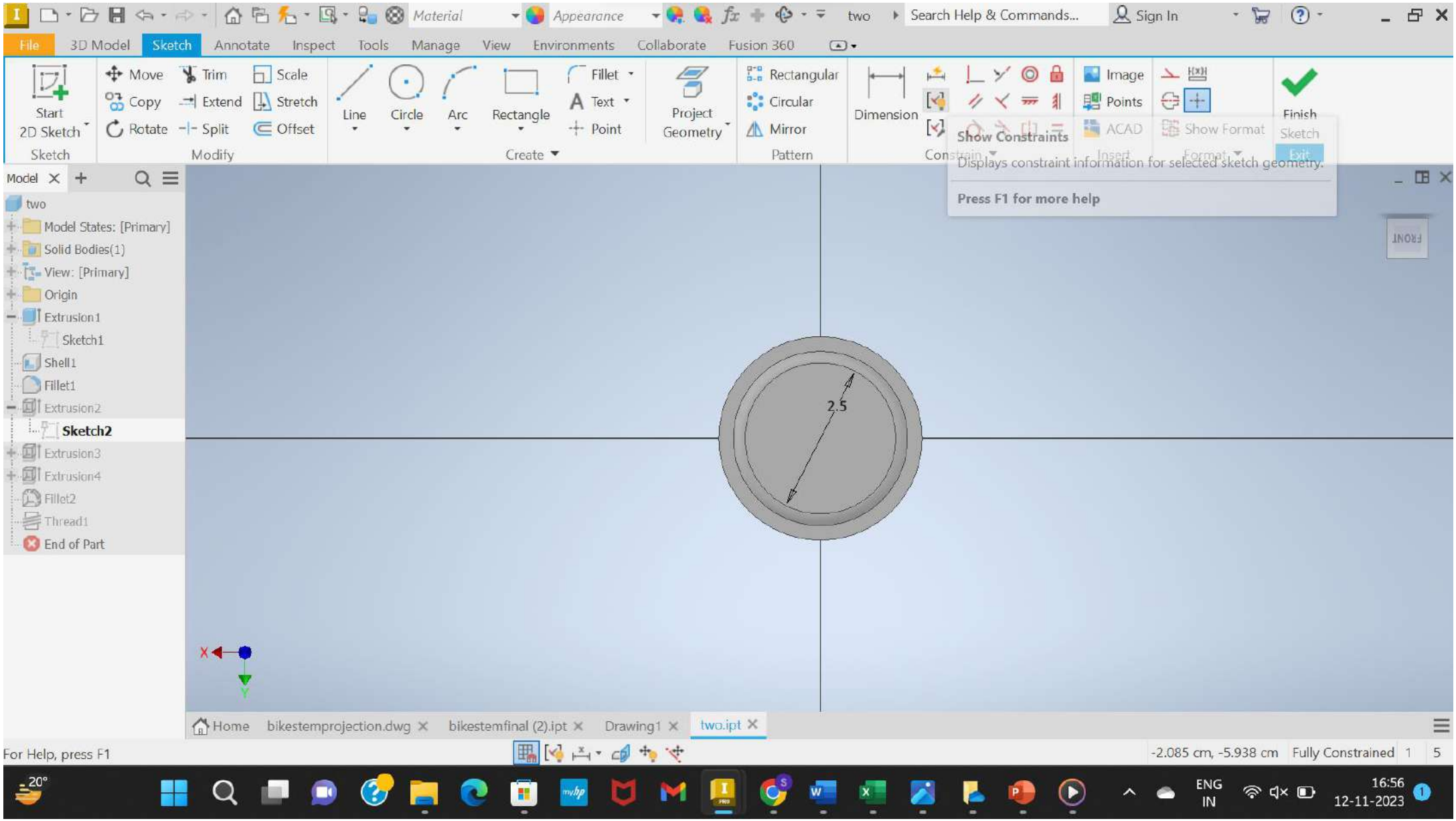

Material
Appearance
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Trim
Scale
Copy
Extend
Stretch
Rotate
Split
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Rectangular
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Insert
Format
Project Geometry
Projects edges, vertices, work features, loops, and curves from existing objects onto the current sketch plane.
Press F1 for more help
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Fillet2
Thread1
End of Part
FRONT
3.5
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
For Help, press F1
-2.946 cm, 6.688 cm
Fully Constrained
1
5
20°
ENG
IN
16:53
12-11-2023

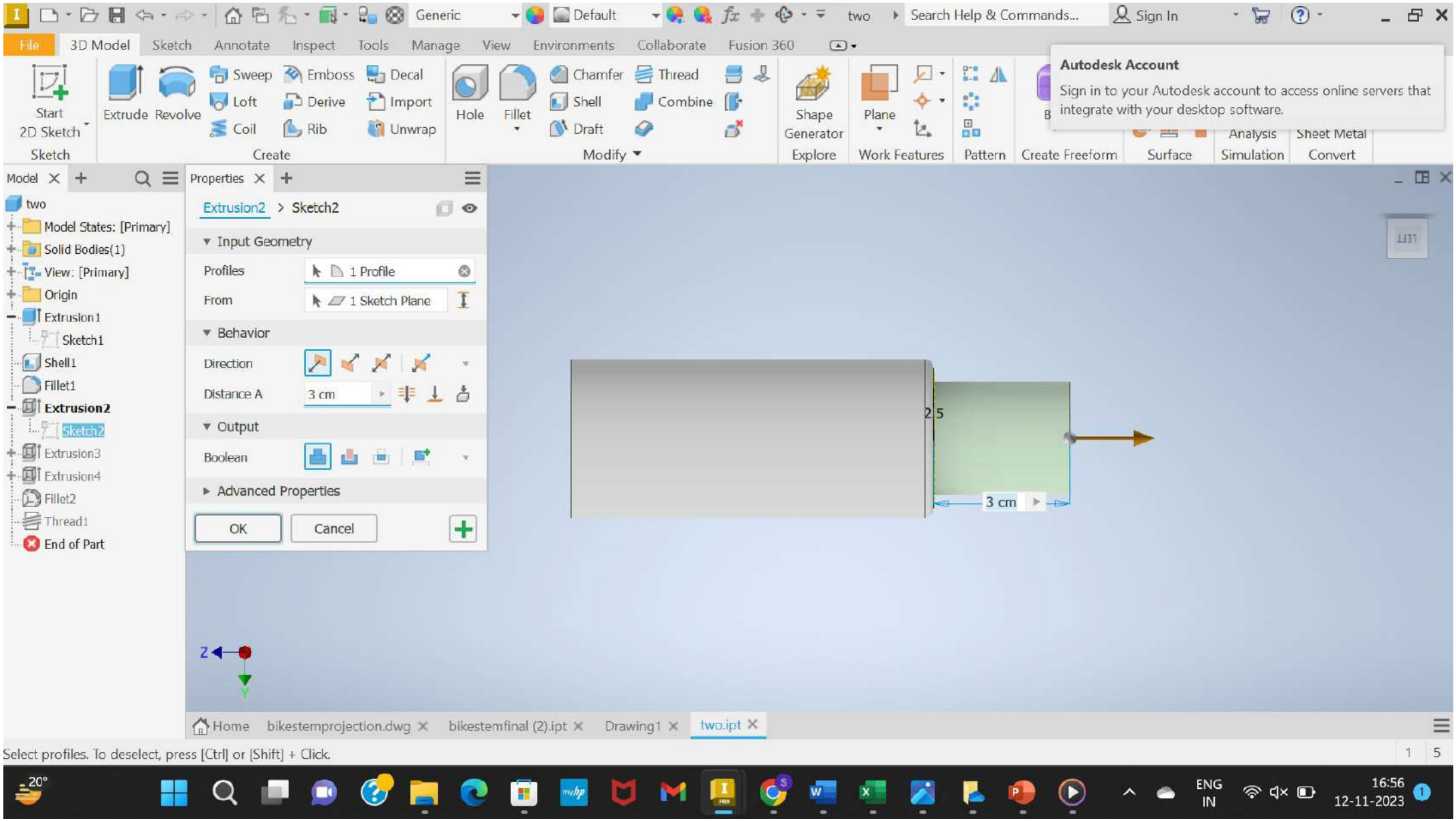

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Fillet2
Thread1
End of Part
Properties
Extrusion1 > Sketch1
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
8 cm
Output
Body Name
Solid1
Advanced Properties
OK
Cancel
3.5
8 cm
RIGHT
Z
Y
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select a profile. [Ctrl] (or [Shift]) + click to deselect
20°
ENG
IN
16:53
12-11-2023

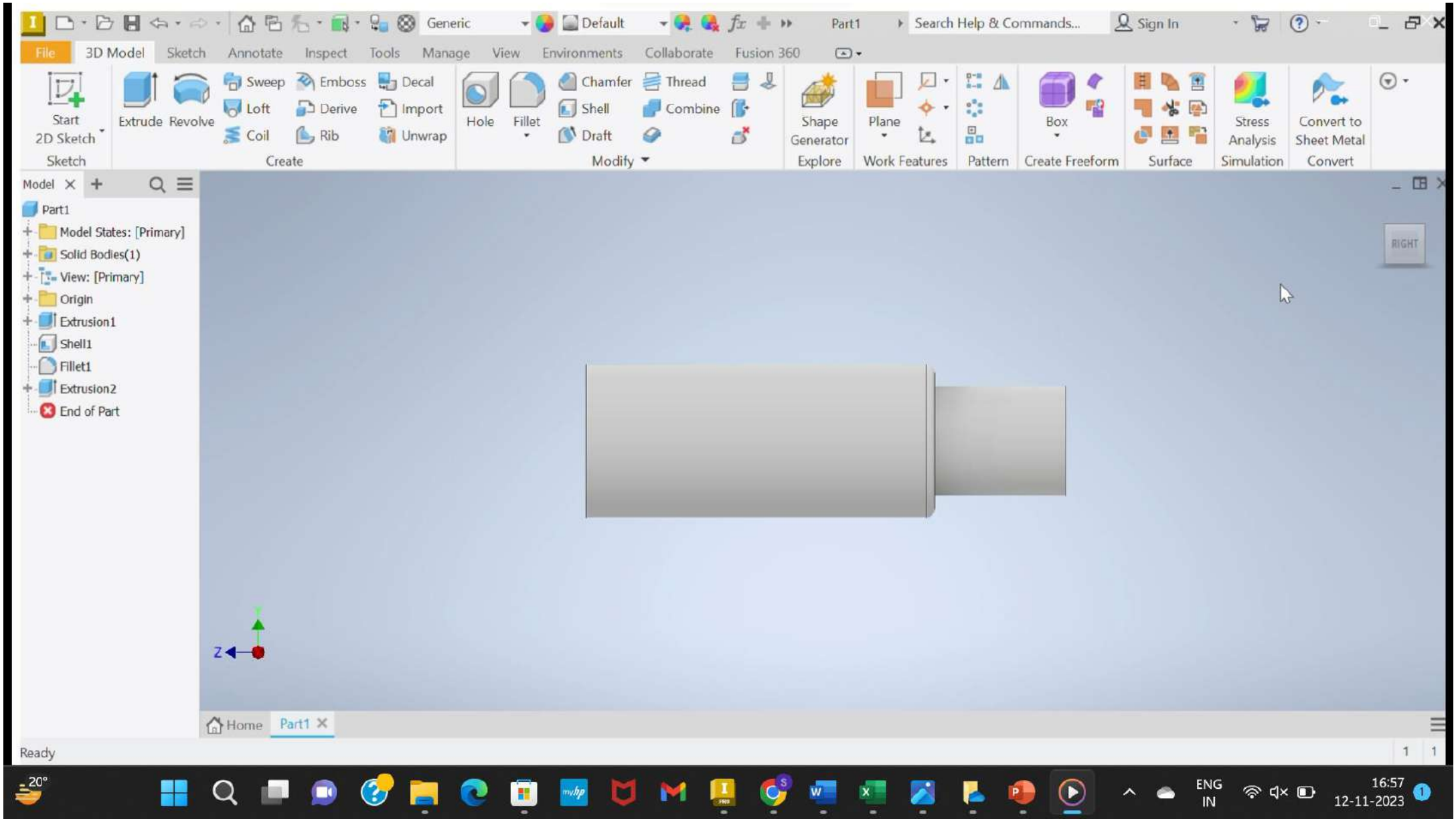

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Fillet2
Thread1
End of Part
Shell : Shell1
Shell
More
Remove Faces
Automatic Face Chain
Solids
Thickness
0.25 cm
OK
Cancel
>>
RIGHT
Z
Y
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select a dimension to reference the parameter.
20°
ENG
IN
16:54
12-11-2023

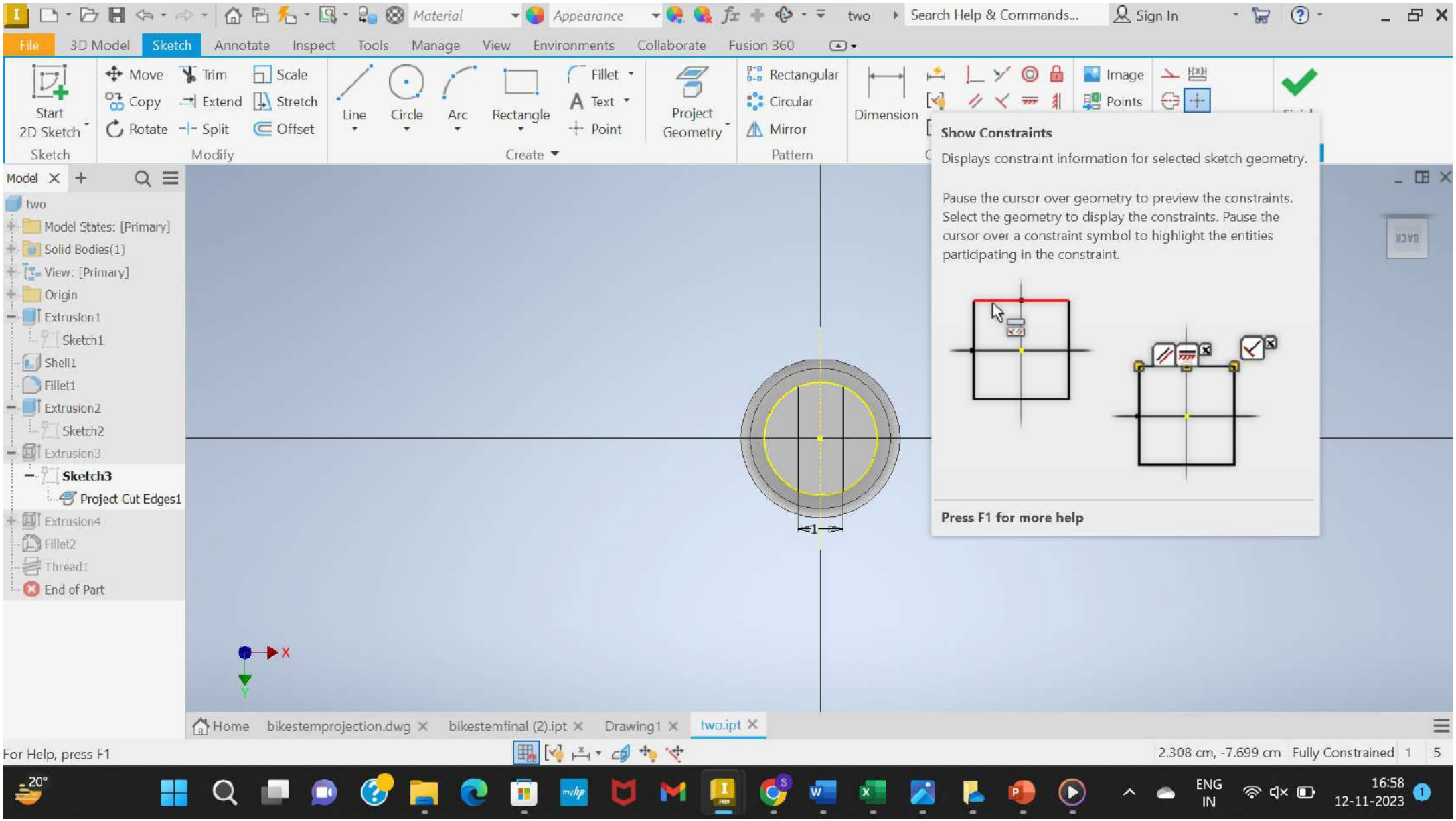

Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Shell1
End of Part
Home
Part1
Ready
20°
ENG
IN
16:55
12-11-2023

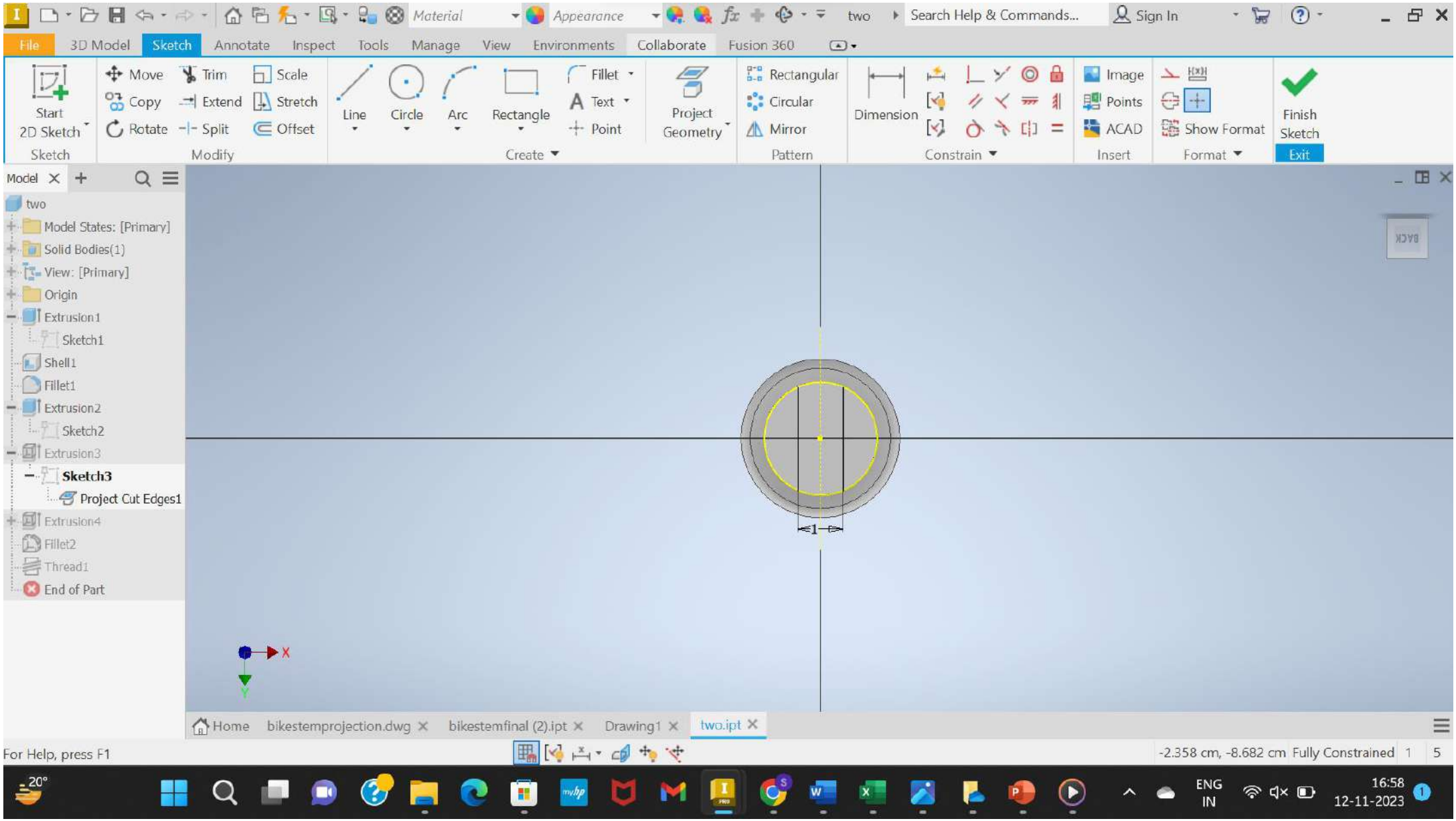

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Create
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Modify
Shape Generator
Explore
Plane
Work Features
Pattern
Box
Create Freeform
Surface
Stress Analysis
Simulation
Convert to Sheet Metal
Convert
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Fillet2
Thread1
End of Part
Properties
Fillet1
Selection Sets
Constant Radius Edge Sets
2 Edges
0.2 cm
Advanced Properties
OK
Cancel
0.2 cm
FRONT
X
Y
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select edges to fillet. To deselect, press [Ctrl] or [Shift] + Click.
1
5
20°
ENG
IN
16:55
12-11-2023

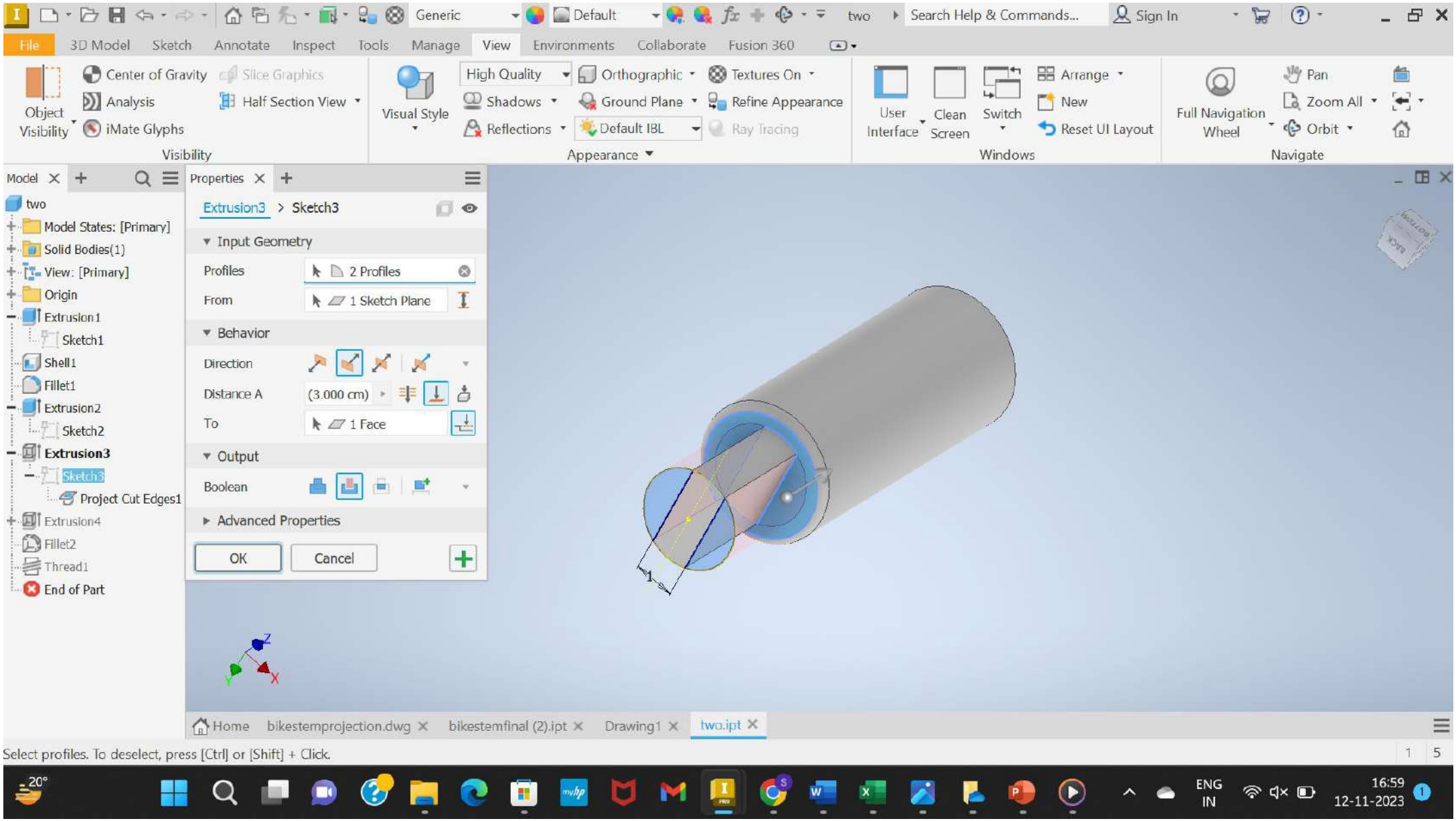

Material
Appearance
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Show Constraints
Displays constraint information for selected sketch geometry.
Press F1 for more help
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Extrusion4
Fillet2
Thread1
End of Part
2.5
FRONT
X
Y
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
For Help, press F1
-2.085 cm, -5.938 cm
Fully Constrained
1
5
20°
ENG
IN
16:56
12-11-2023

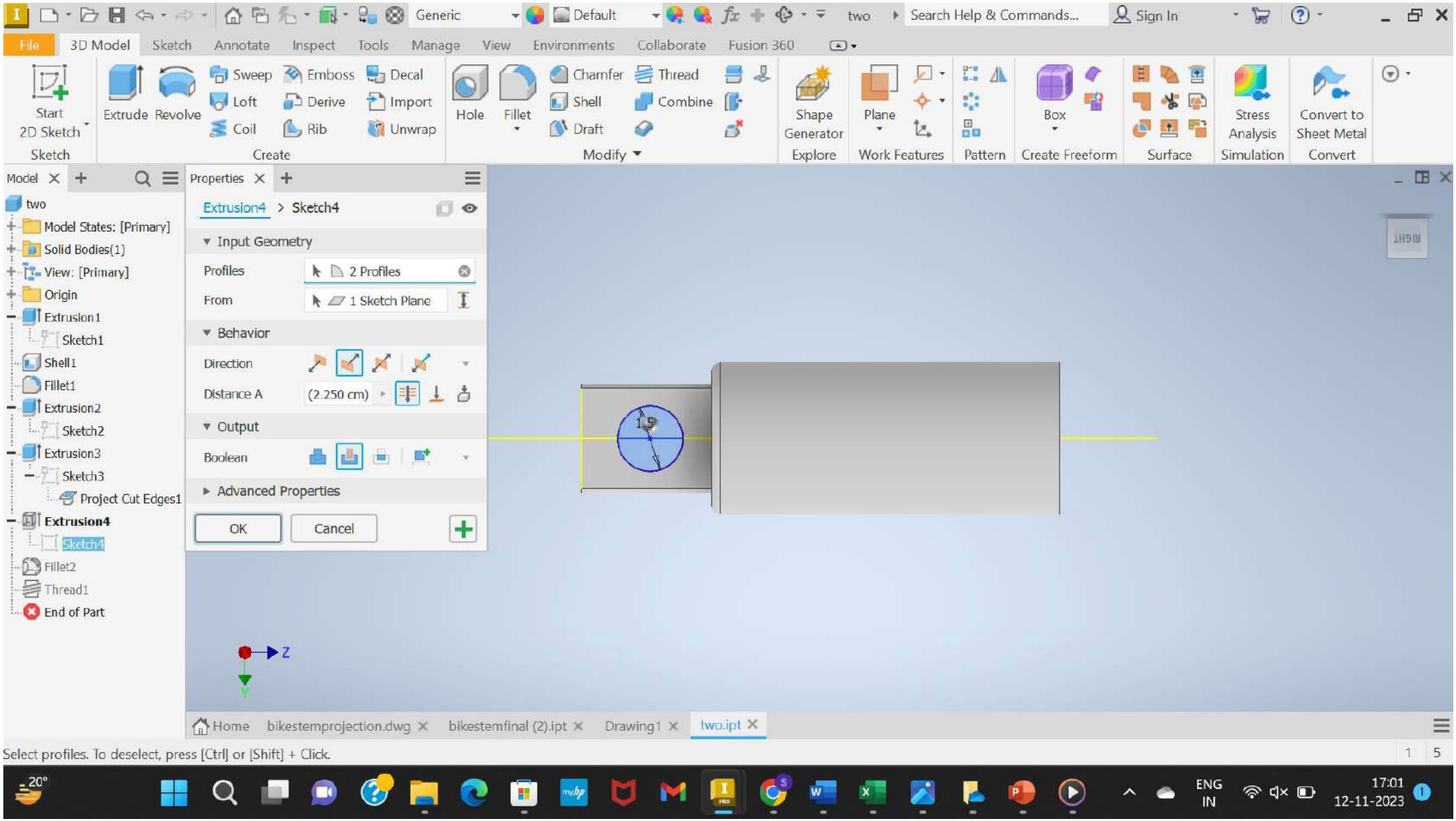

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Autodesk Account
Sign in to your Autodesk account to access online servers that integrate with your desktop software.
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Pattern
Create Freeform
Surface
Analysis
Simulation
Sheet Metal
Convert
Sketch
Create
Modify
Explore
Work Features
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Extrusion4
Fillet2
Thread1
End of Part
Properties
Extrusion2 > Sketch2
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
3 cm
Output
Boolean
Advanced Properties
OK
Cancel
2.5
3 cm
LEFT
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
1
5
20°
ENG
IN
16:56
12-11-2023

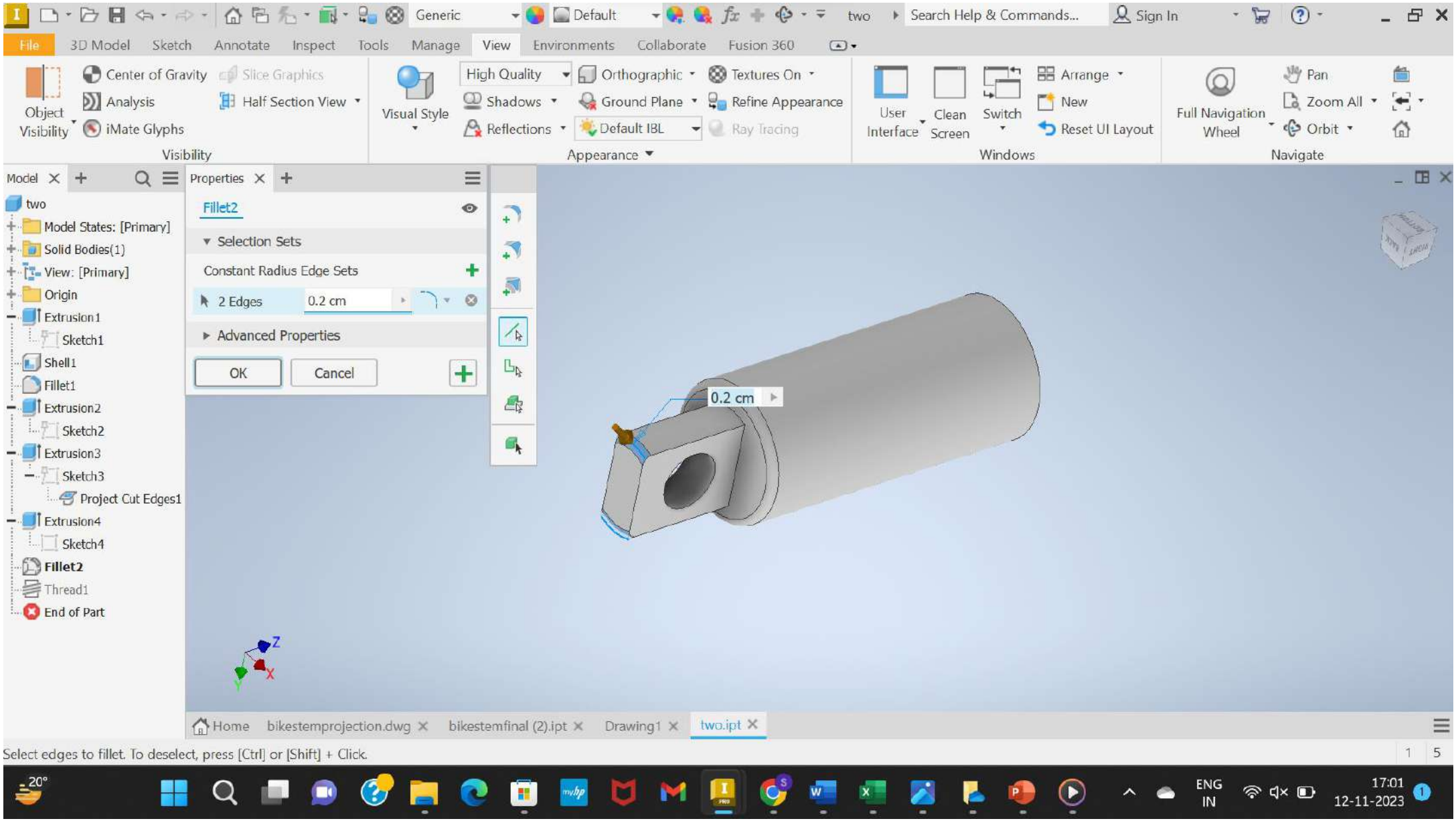

Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Create
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Modify
Shape Generator
Explore
Plane
Work Features
Pattern
Box
Create Freeform
Surface
Stress Analysis
Simulation
Convert to Sheet Metal
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Shell1
Fillet1
Extrusion2
End of Part
RIGHT
Z
Home
Part1
Ready
20°
ENG
IN
16:57
12-11-2023

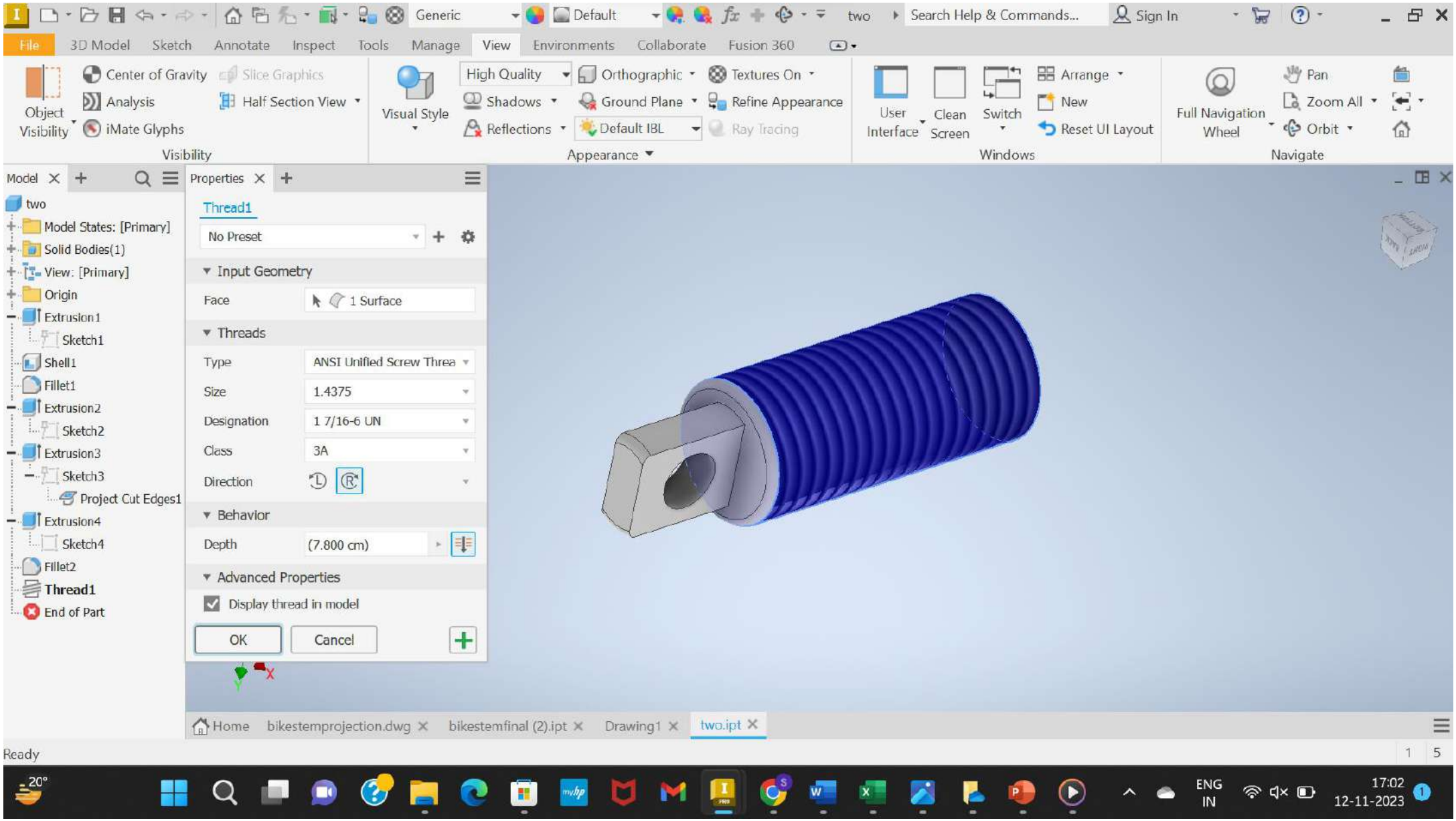

Material
Appearance
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
Sketch
Modify
Create
Pattern
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Fillet2
Thread1
End of Part
Show Constraints
Displays constraint information for selected sketch geometry.
Pause the cursor over geometry to preview the constraints. Select the geometry to display the constraints. Pause the cursor over a constraint symbol to highlight the entities participating in the constraint.
Press F1 for more help
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
For Help, press F1
2.308 cm, -7.699 cm
Fully Constrained
ENG
IN
16:58
12-11-2023

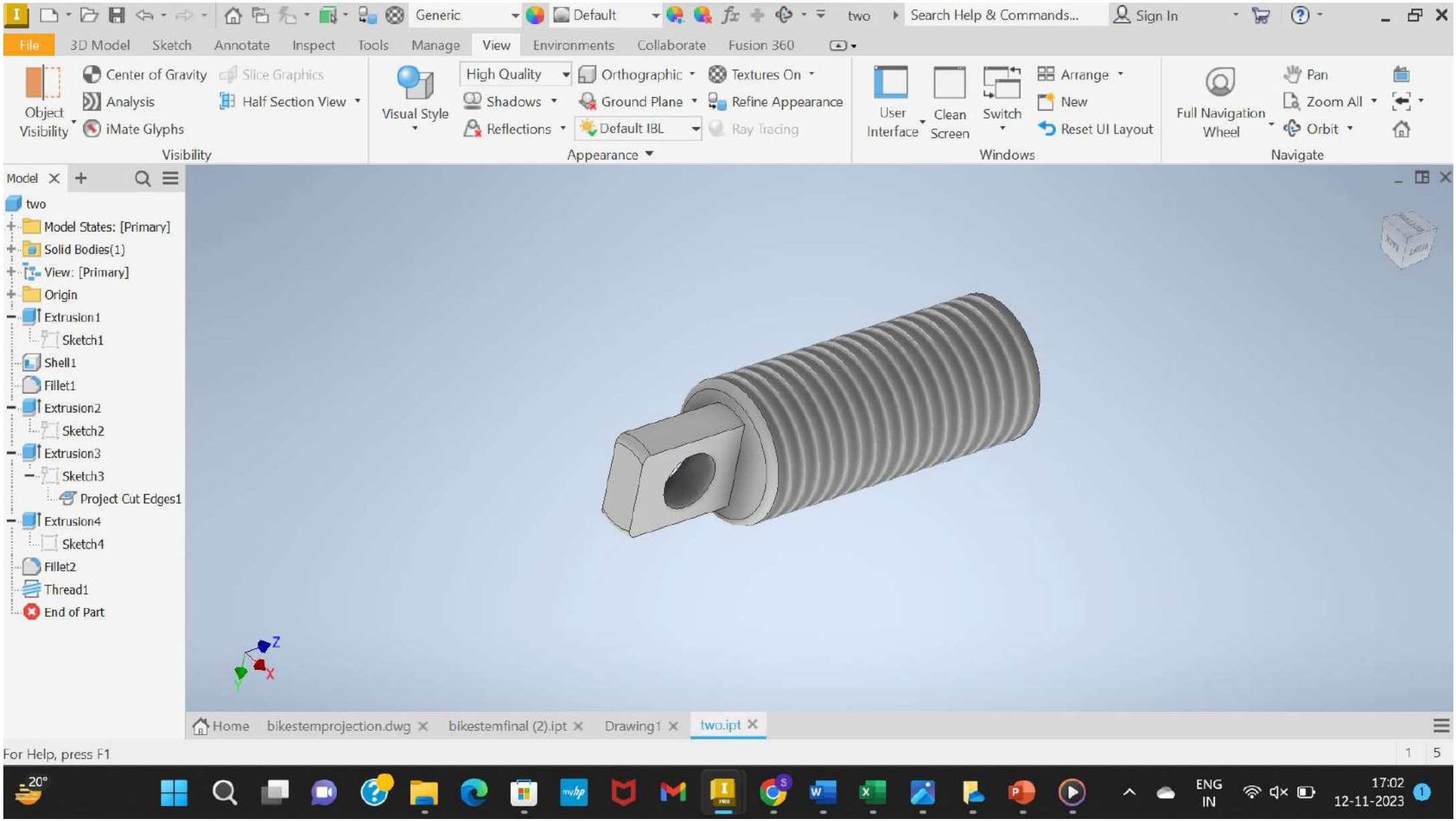

Material
Appearance
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Fillet2
Thread1
End of Part
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
For Help, press F1
-2.358 cm, -8.682 cm
Fully Constrained
ENG
IN
16:58
12-11-2023

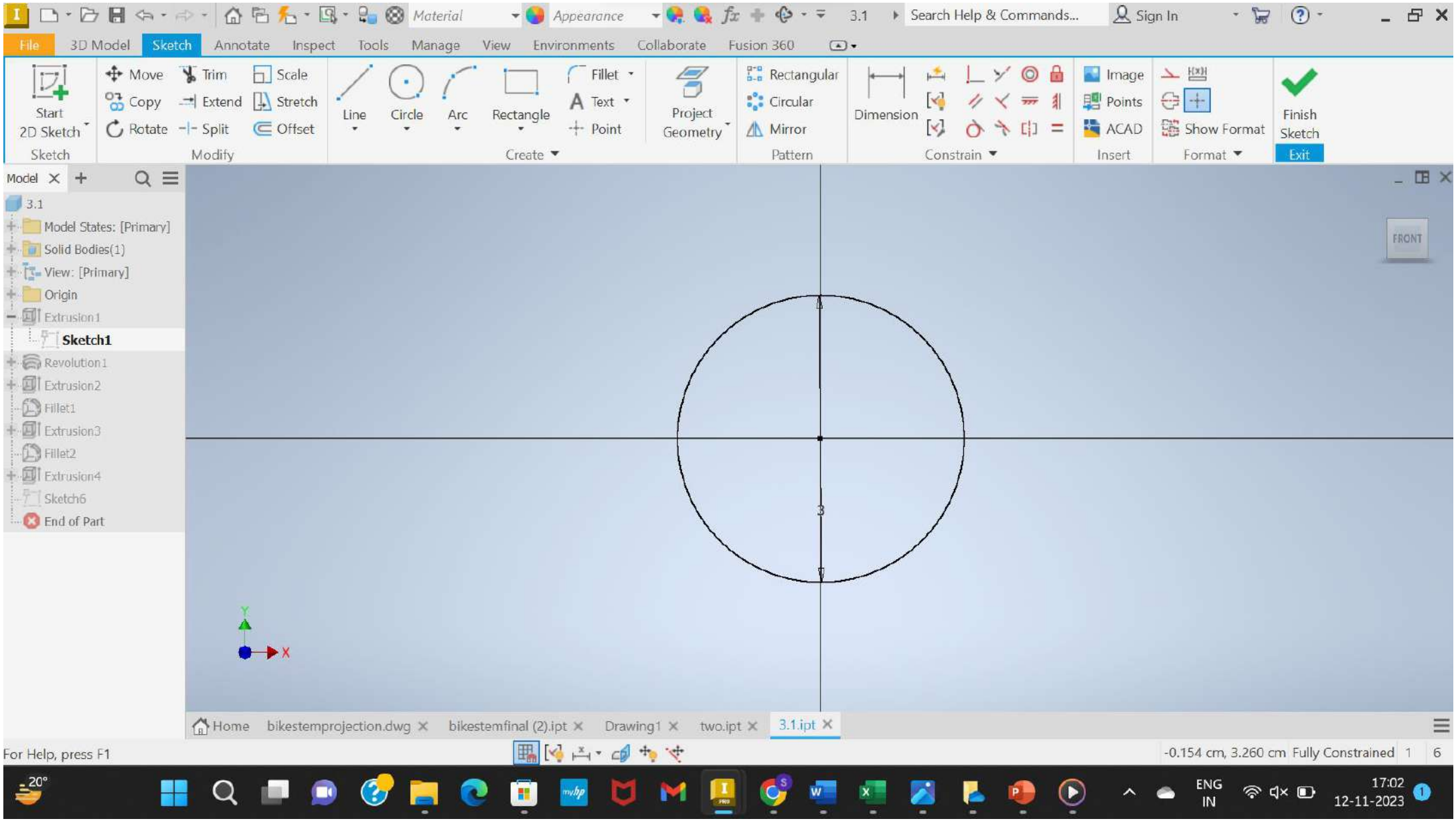

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Fillet2
Thread1
End of Part
Properties
Extrusion3 > Sketch3
Input Geometry
Profiles
2 Profiles
From
1 Sketch Plane
Behavior
Direction
Distance A
(3.000 cm)
To
1 Face
Output
Boolean
Advanced Properties
OK
Cancel
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
16:59
12-11-2023

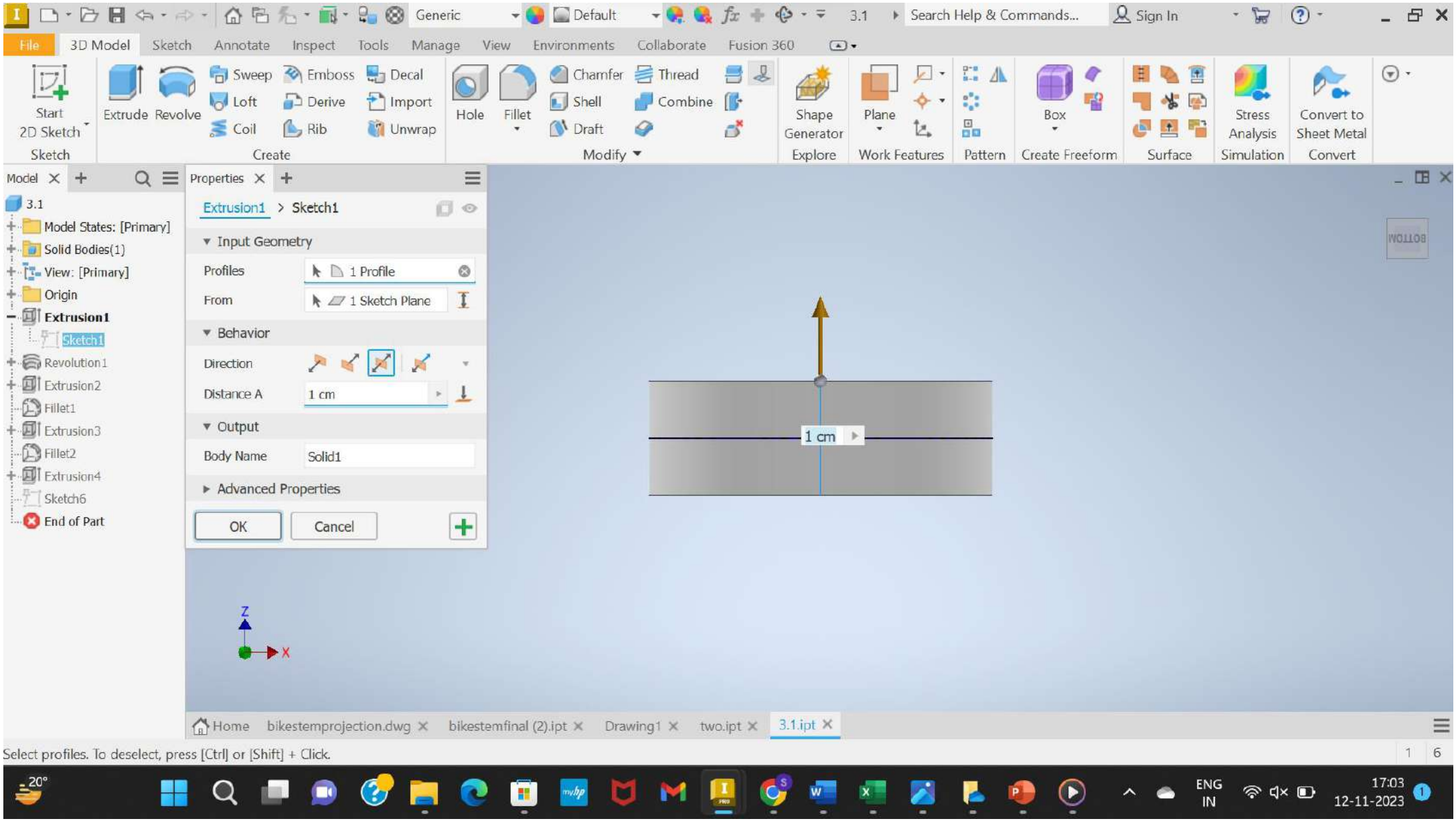

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Sketch4
Fillet2
Thread1
End of Part
Properties
Extrusion4 > Sketch4
Input Geometry
Profiles
2 Profiles
From
1 Sketch Plane
Behavior
Direction
Distance A
(2.250 cm)
Output
Boolean
Advanced Properties
OK
Cancel
RIGHT
Z
Y
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:01
12-11-2023

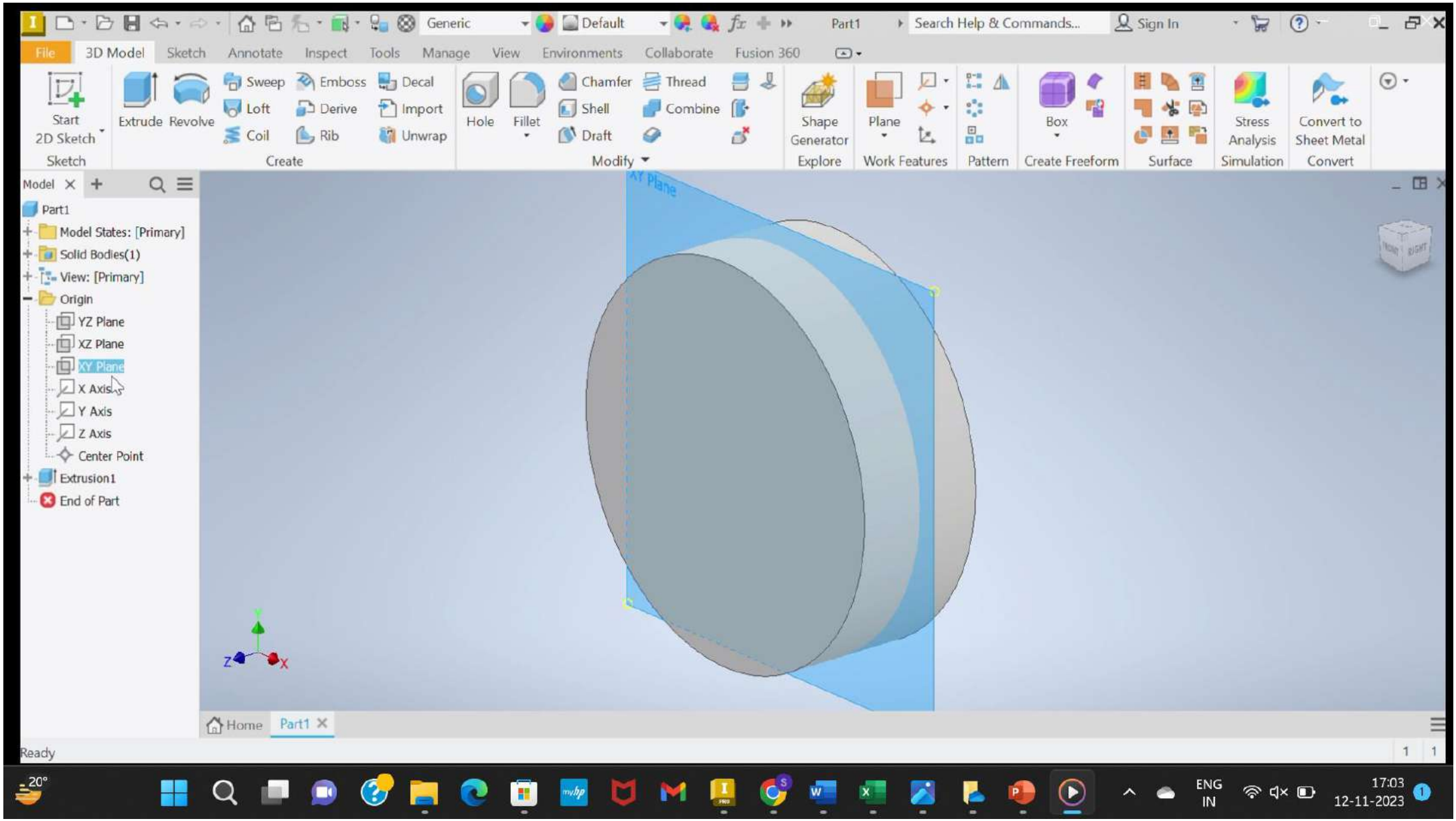

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Sketch4
Fillet2
Thread1
End of Part
Properties
Fillet2
Selection Sets
Constant Radius Edge Sets
2 Edges
0.2 cm
Advanced Properties
OK
Cancel
0.2 cm
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Select edges to fillet. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:01
12-11-2023

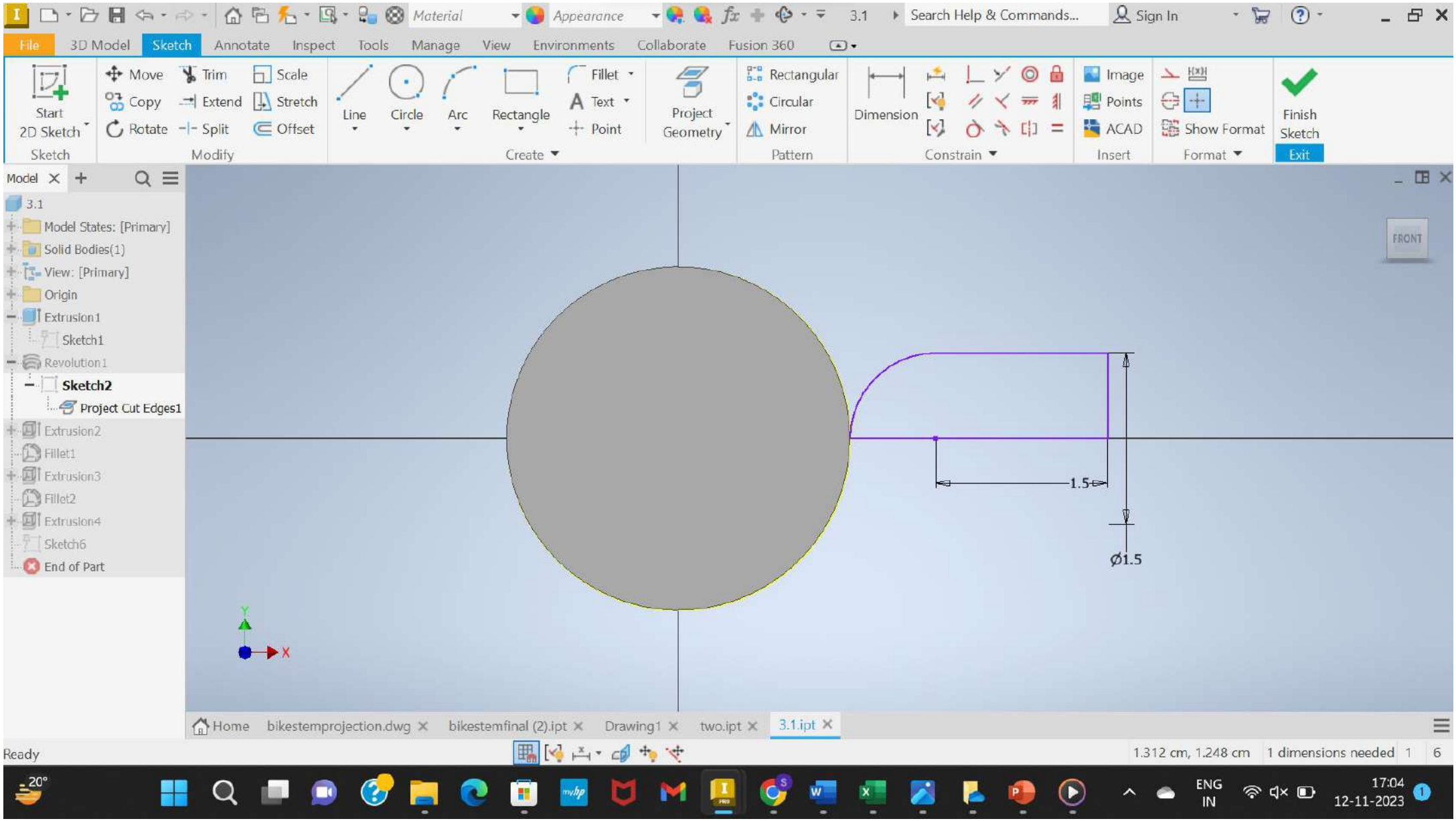

Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Slice Graphics
Analysis
Half Section View
iMate Glyphs
Visibility
Visual Style
High Quality
Orthographic
Textures On
Shadows
Ground Plane
Refine Appearance
Reflections
Default IBL
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Sketch4
Fillet2
Thread1
End of Part
Properties
Thread1
No Preset
Input Geometry
Face
1 Surface
Threads
Type
ANSI Unified Screw Threa
Size
1.4375
Designation
1 7/16-6 UN
Class
3A
Direction
Behavior
Depth
(7.800 cm)
Advanced Properties
Display thread in model
OK
Cancel
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
Ready
ENG
IN
17:02
12-11-2023


Generic
Default
two
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
two
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Shell1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Project Cut Edges1
Extrusion4
Sketch4
Fillet2
Thread1
End of Part
Z
X
Y
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
For Help, press F1
ENG
IN
17:02
12-11-2023


Material
Appearance
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Extrusion2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
FRONT
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
For Help, press F1
-0.154 cm, 3.260 cm Fully Constrained
20°
ENG
IN
17:02
12-11-2023


Generic
Default
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Extrusion2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
Properties
Extrusion1 > Sketch1
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
1 cm
Output
Body Name
Solid1
Advanced Properties
OK
Cancel
1 cm
BOTTOM
Z
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:03
12-11-2023


Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Create
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Modify
Shape Generator
Explore
Plane
Work Features
Pattern
Box
Create Freeform
Surface
Stress Analysis
Simulation
Convert to Sheet Metal
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Point
Extrusion1
End of Part
XY Plane
Home
Part1
Ready
ENG
IN
17:03
12-11-2023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Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
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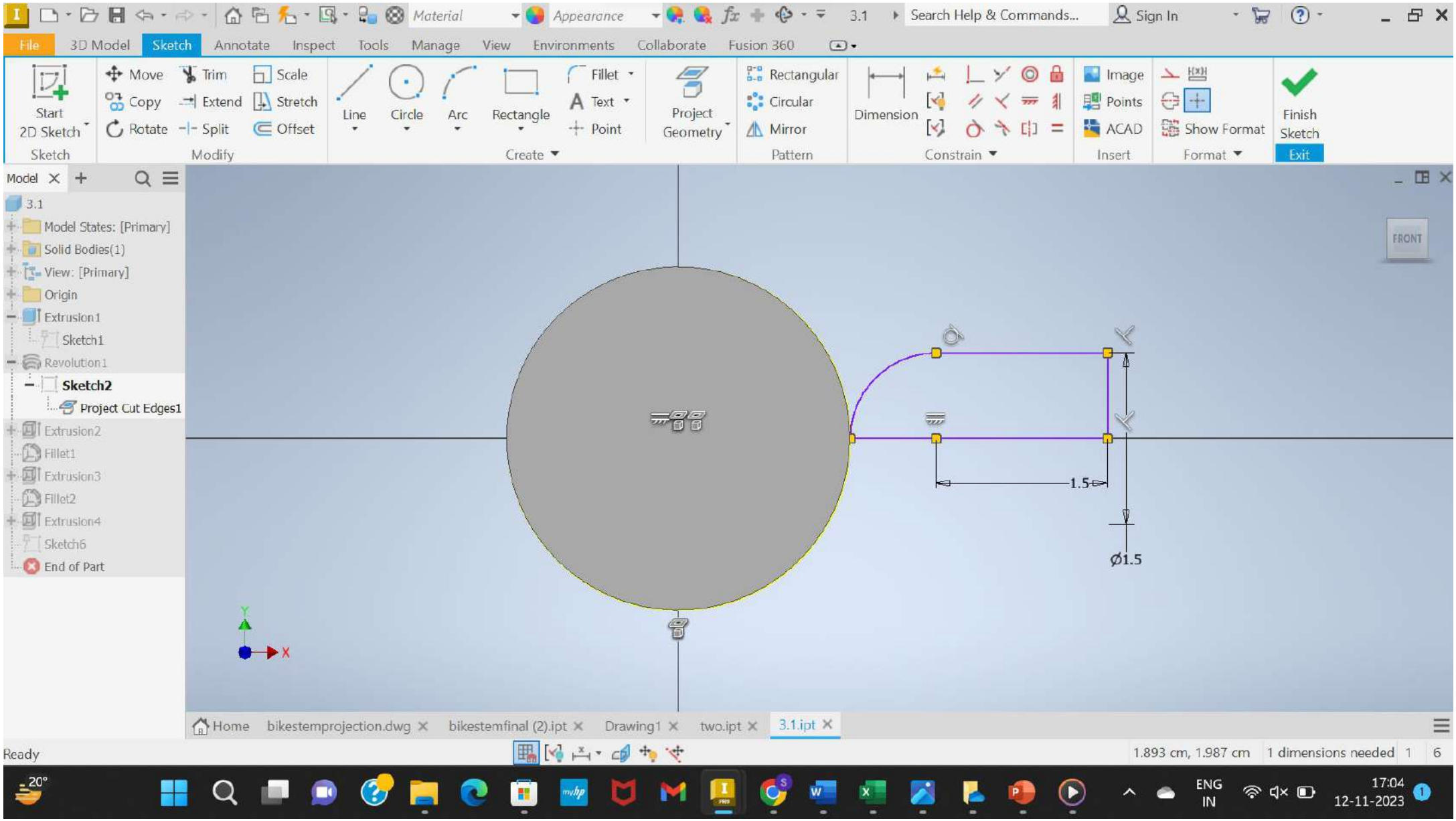
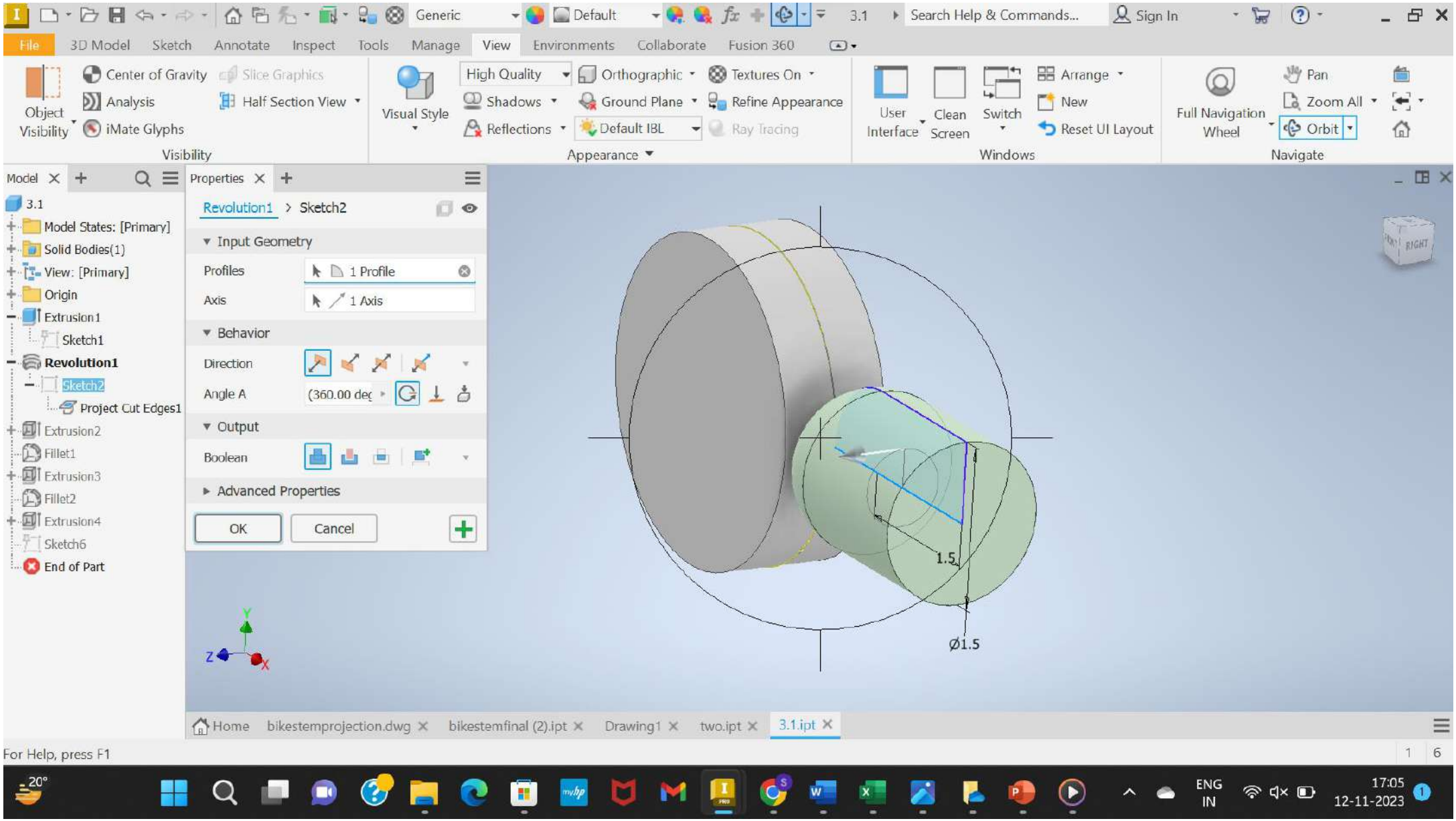
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
FRONT
1.5
Ø1.5
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Ready
1.312 cm, 1.248 cm
1 dimensions needed
ENG
IN
17:04
12-11-2023


Material
Appearance
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
FRONT
1.5
Ø1.5
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Ready
1.893 cm, 1.987 cm
1 dimensions needed
1
6
20°
ENG
IN
17:04
12-11-2023


Generic
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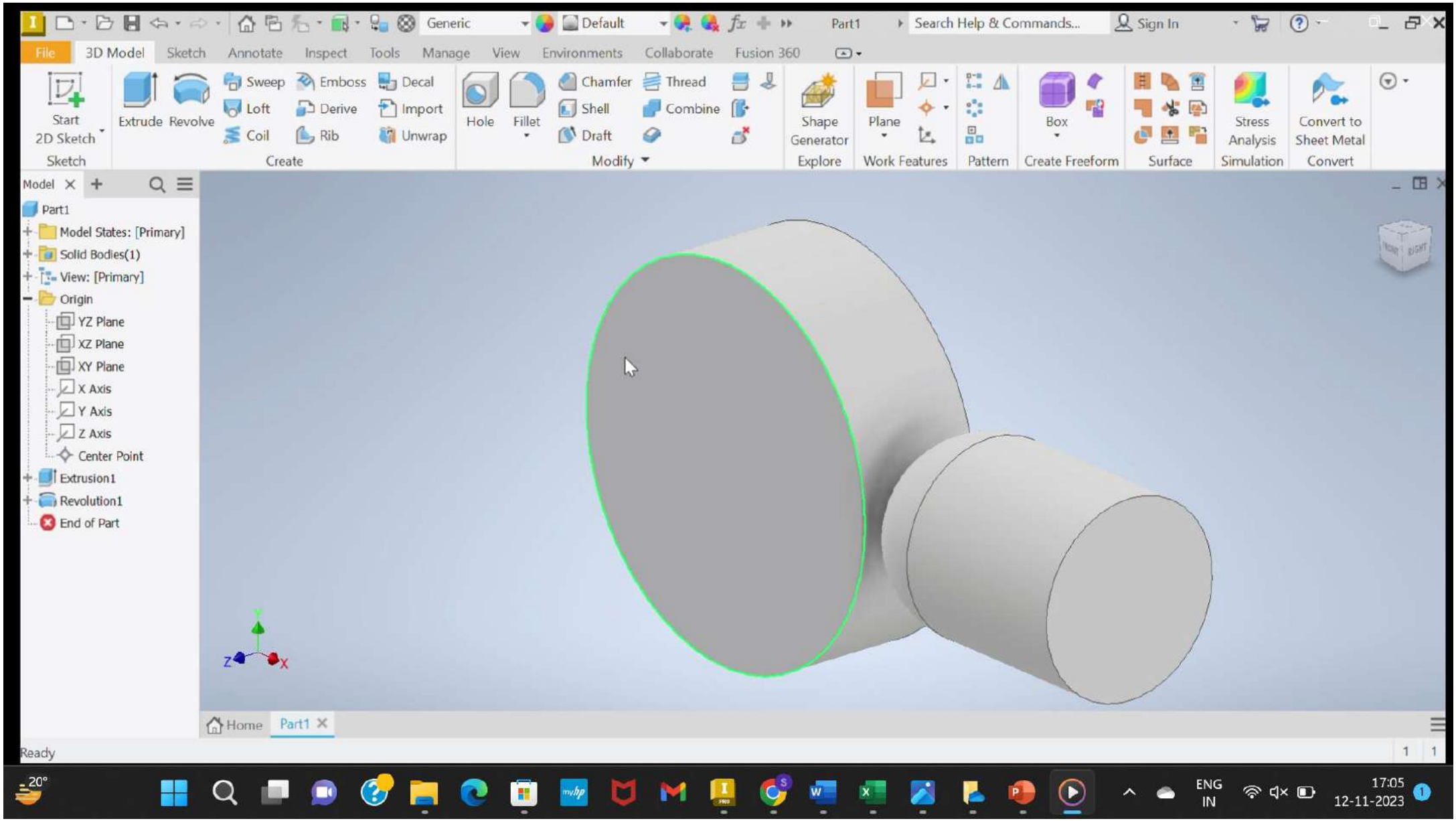
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
Properties
Revolution1 > Sketch2
Input Geometry
Profiles
1 Profile
Axis
1 Axis
Behavior
Direction
Angle A
(360.00 deg
Output
Boolean
Advanced Properties
OK
Cancel
1.5
Ø1.5
RIGHT
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
For Help, press F1
ENG
IN
17:05
12-11-2023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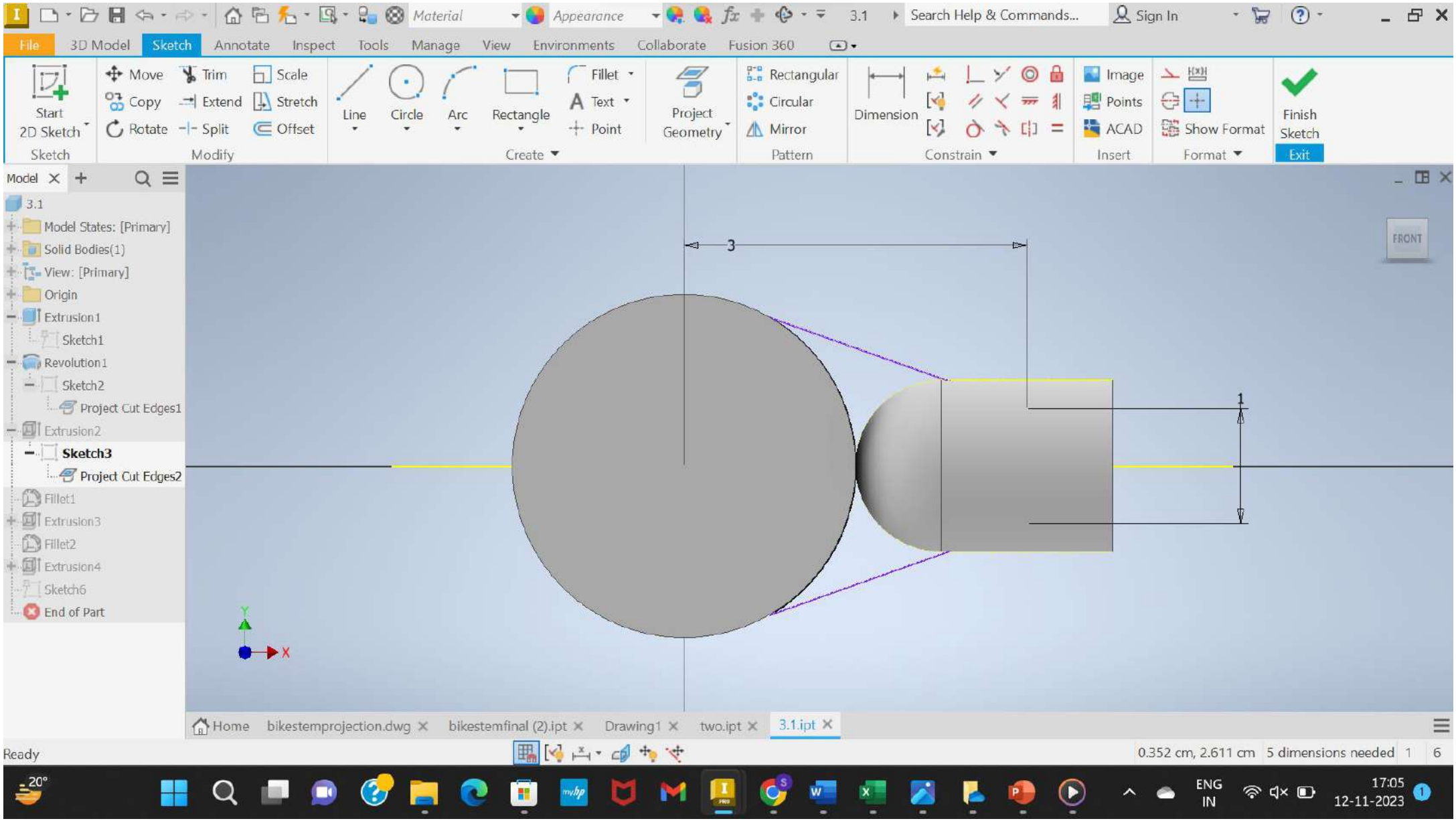
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Point
Extrusion1
Revolution1
End of Part
Home
Part1
Ready
20°
ENG
IN
17:05
12-11-2023


File
3D Model
Sketch
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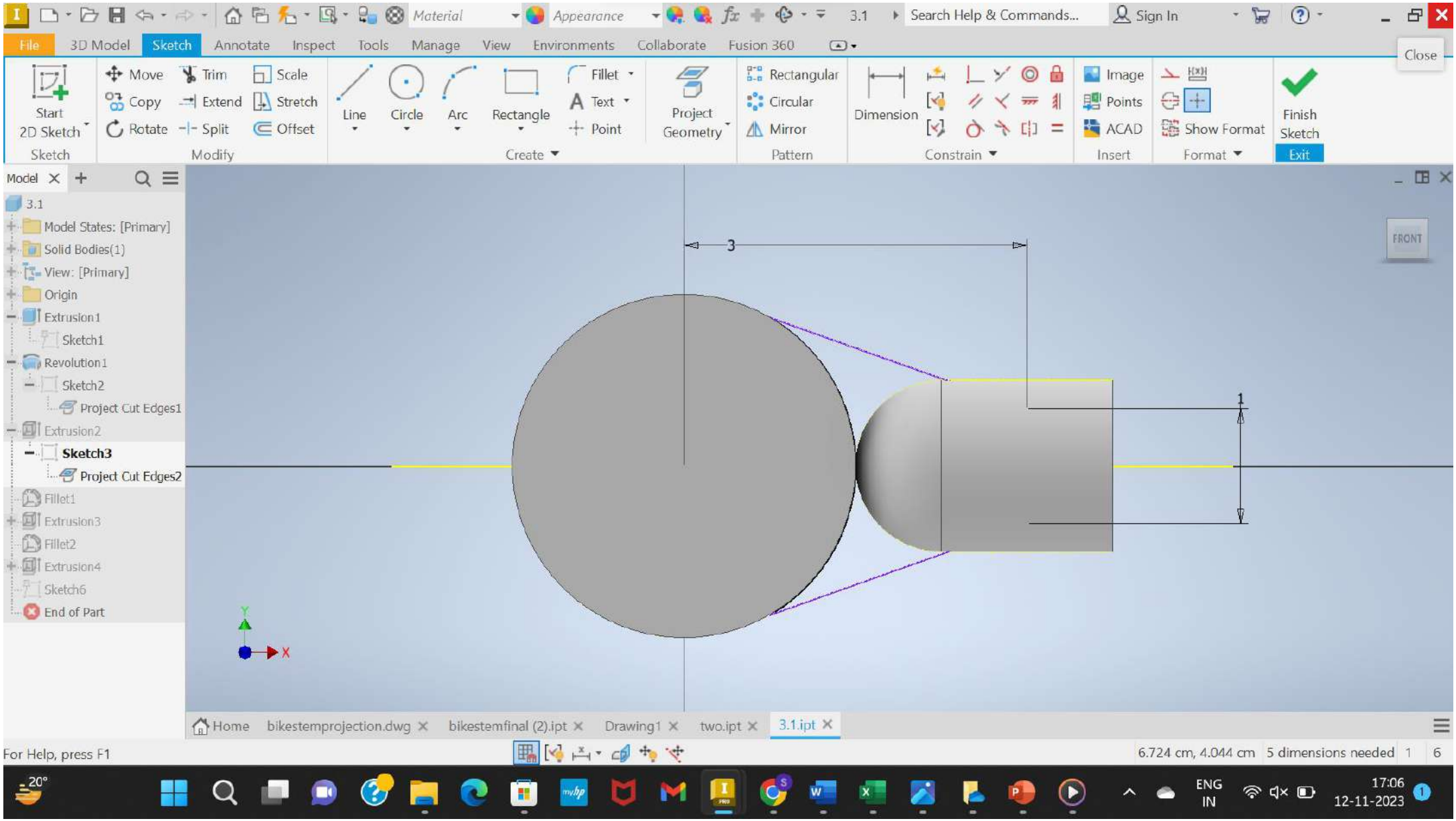
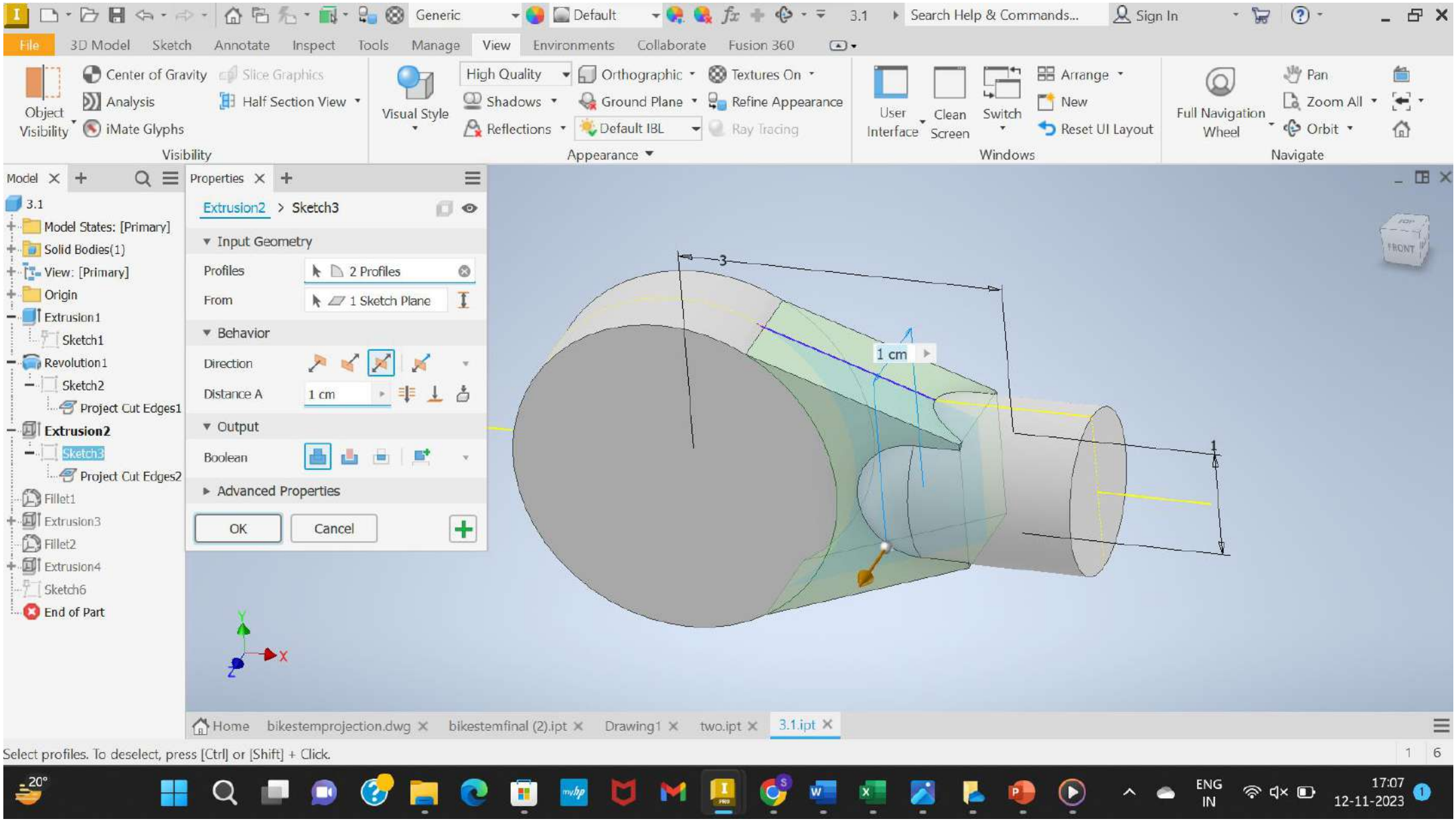
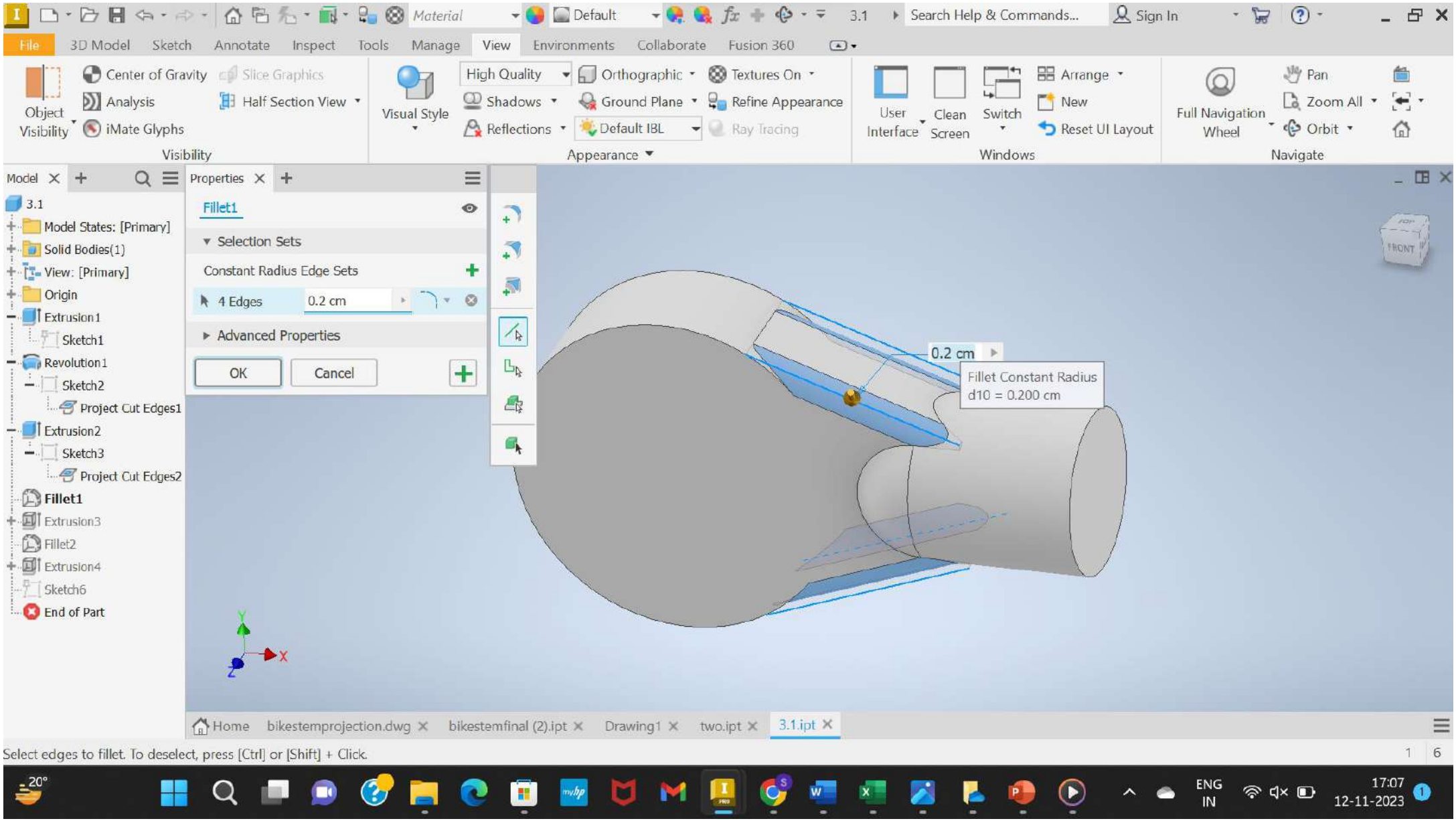
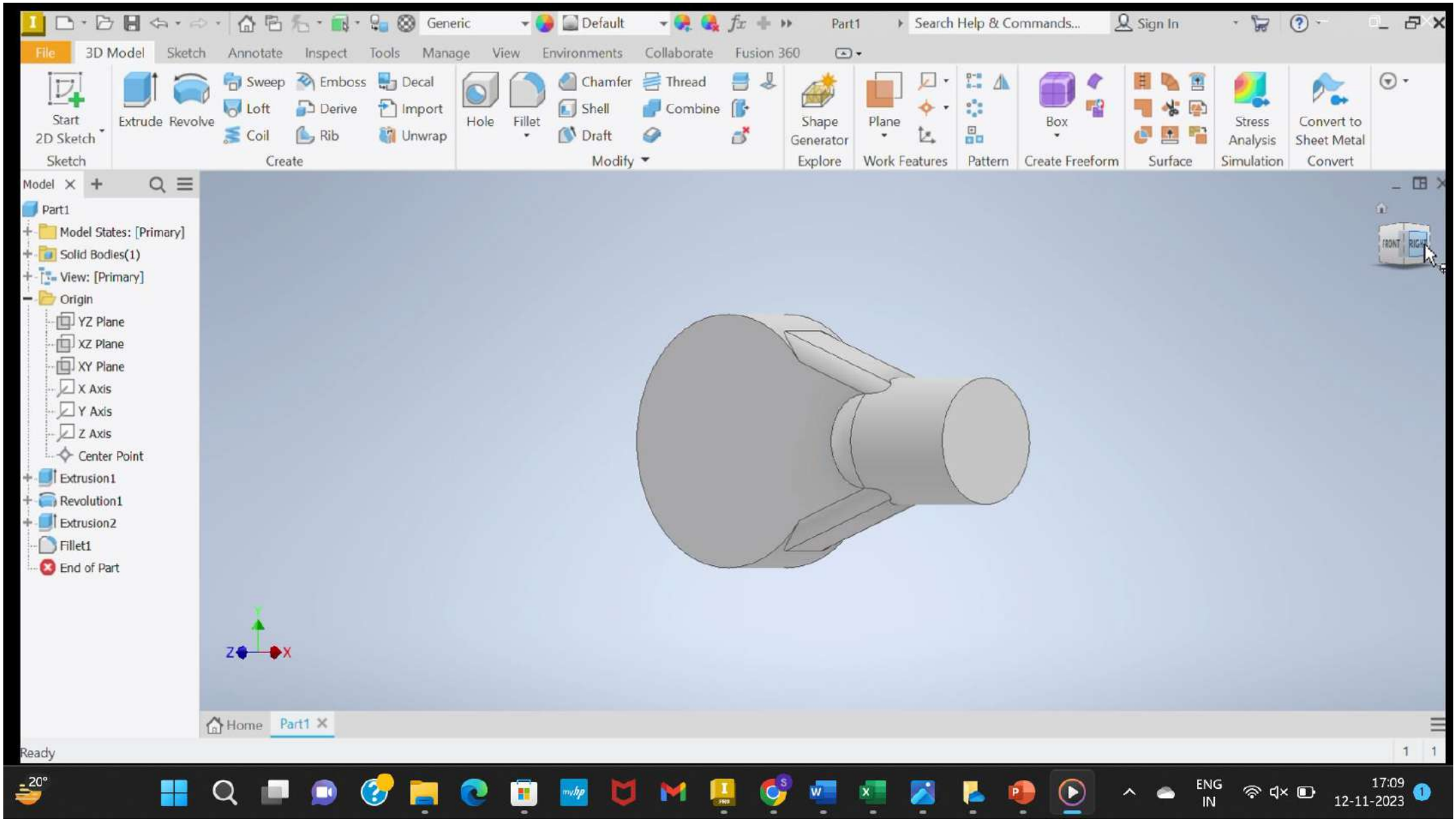
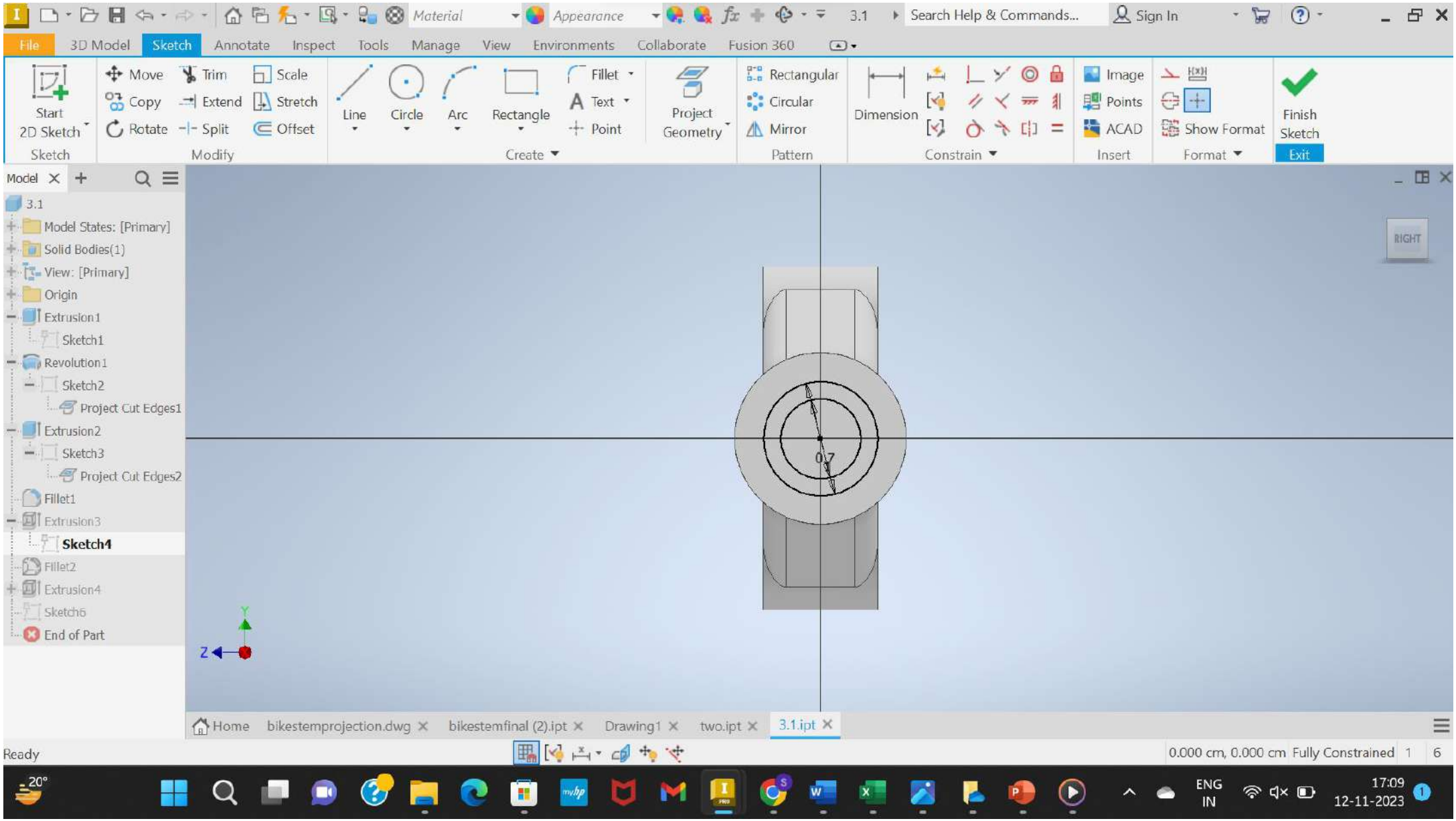
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
3
1
FRONT
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Ready
0.352 cm, 2.611 cm
5 dimensions needed
ENG
IN
17:05
12-11-2023

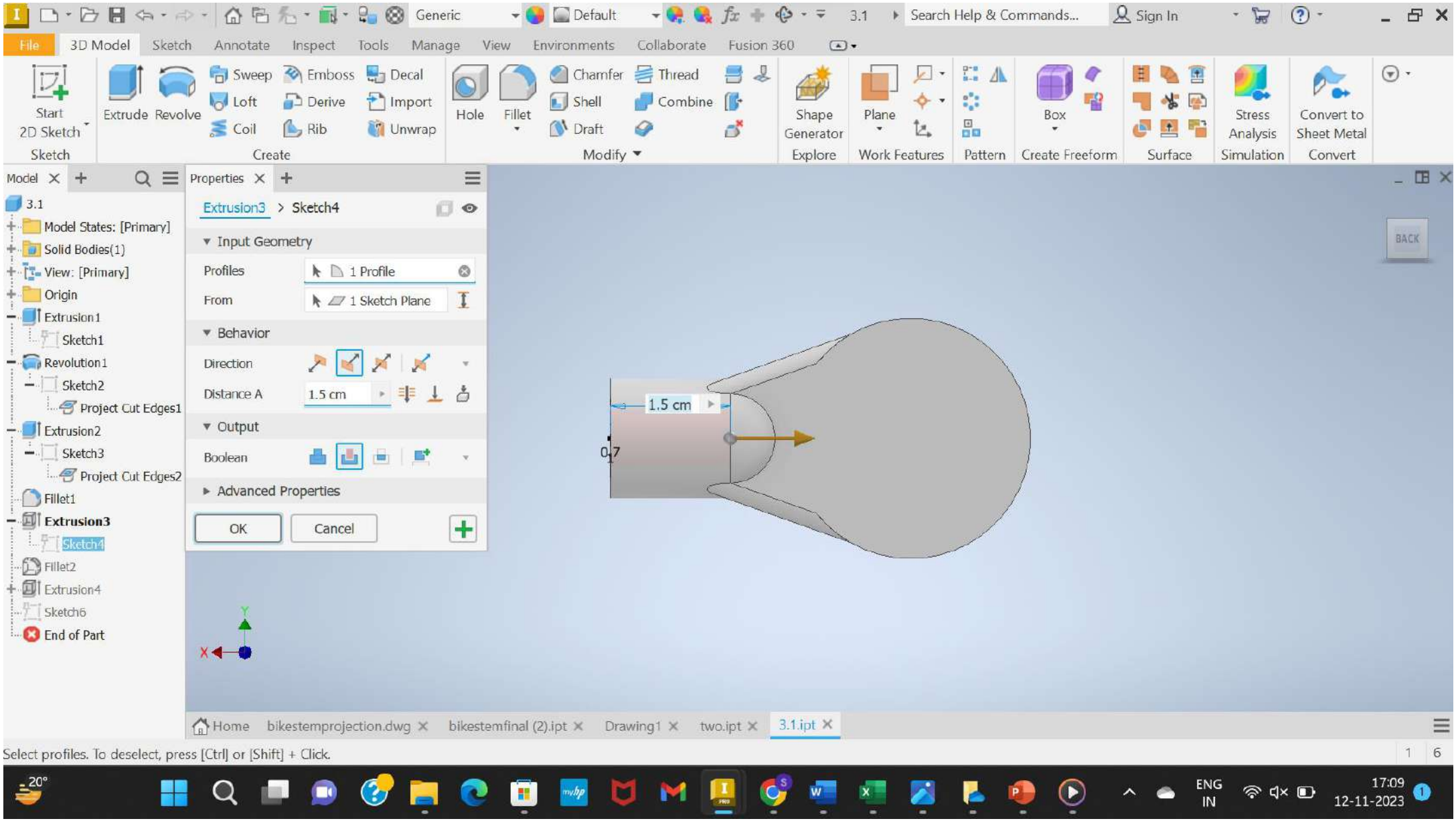

Material
Appearance
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Close
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
3
1
FRONT
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
For Help, press F1
6.724 cm, 4.044 cm
5 dimensions needed
1
6
20°
ENG
IN
17:06
12-11-2023


Generic
Default
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
Properties
Extrusion2 > Sketch3
Input Geometry
Profiles
2 Profiles
From
1 Sketch Plane
Behavior
Direction
Distance A
1 cm
Output
Boolean
Advanced Properties
OK
Cancel
3
1 cm
1
FRONT
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:07
12-11-2023


Material
Default
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Fillet2
Extrusion4
Sketch6
End of Part
Properties
Fillet1
Selection Sets
Constant Radius Edge Sets
4 Edges
0.2 cm
Advanced Properties
OK
Cancel
0.2 cm
Fillet Constant Radius
d10 = 0.200 cm
FRONT
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Select edges to fillet. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:07
12-11-2023


Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Point
Extrusion1
Revolution1
Extrusion2
Fillet1
End of Part
FRONT
RIGHT
Y
Z
X
Home
Part1
Ready
20°
ENG
IN
17:09
12-11-2023


Material
Appearance
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Sketch4
Fillet2
Extrusion4
Sketch6
End of Part
RIGHT
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Ready
0.000 cm, 0.000 cm Fully Constrained
ENG
IN
17:09
12-11-2023


Generic
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3.1
Search Help & Commands...
Sign In
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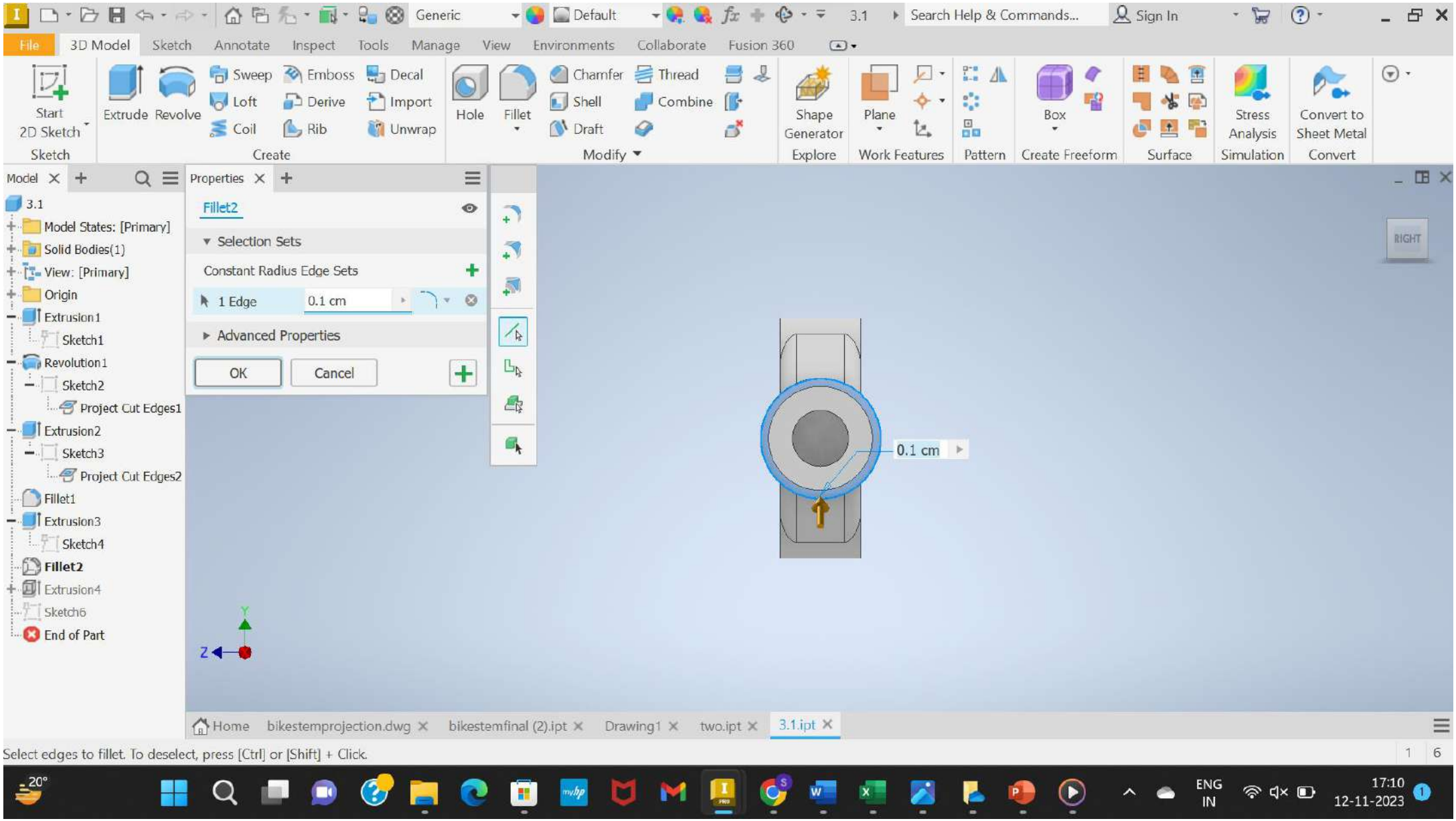
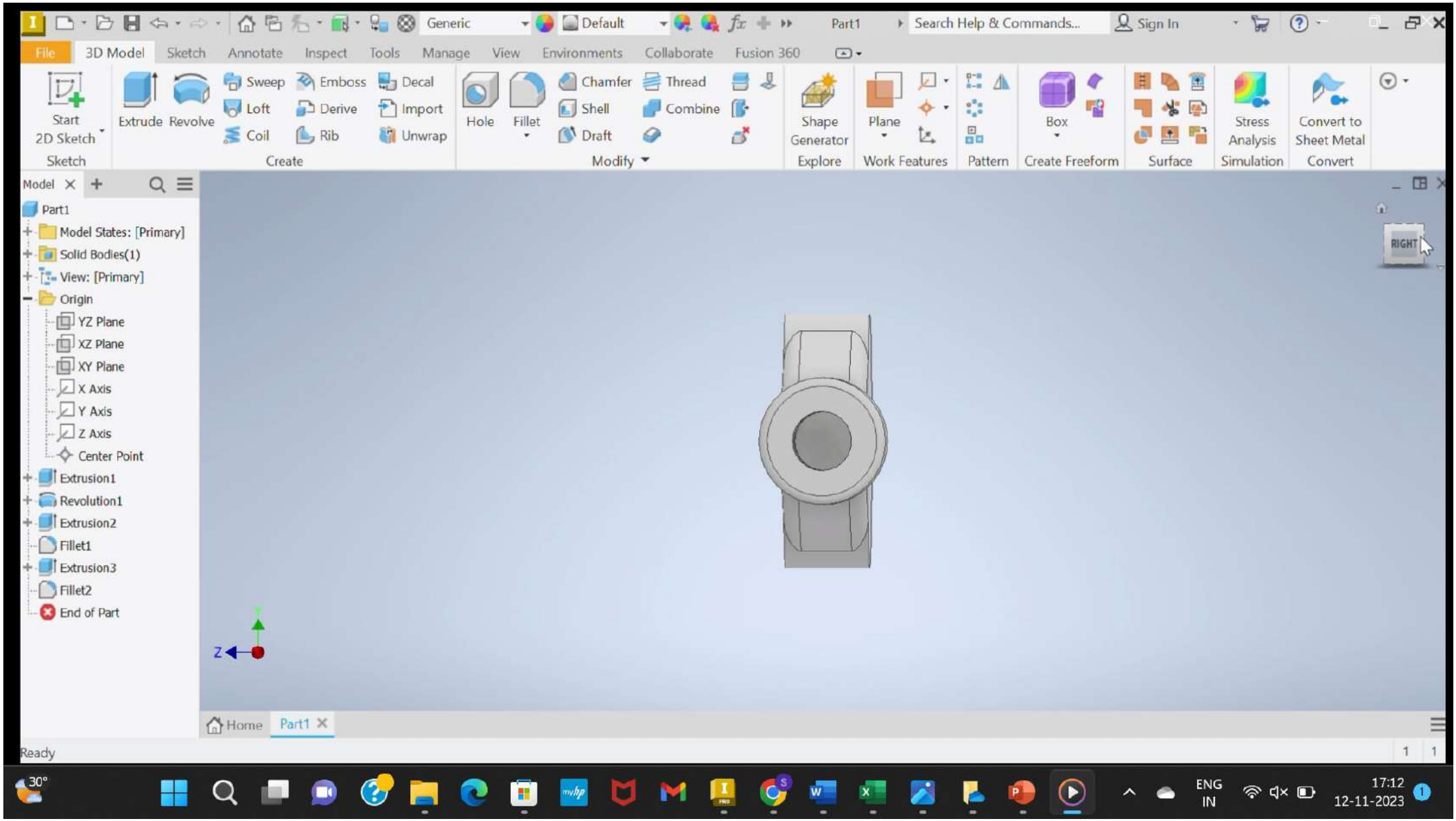
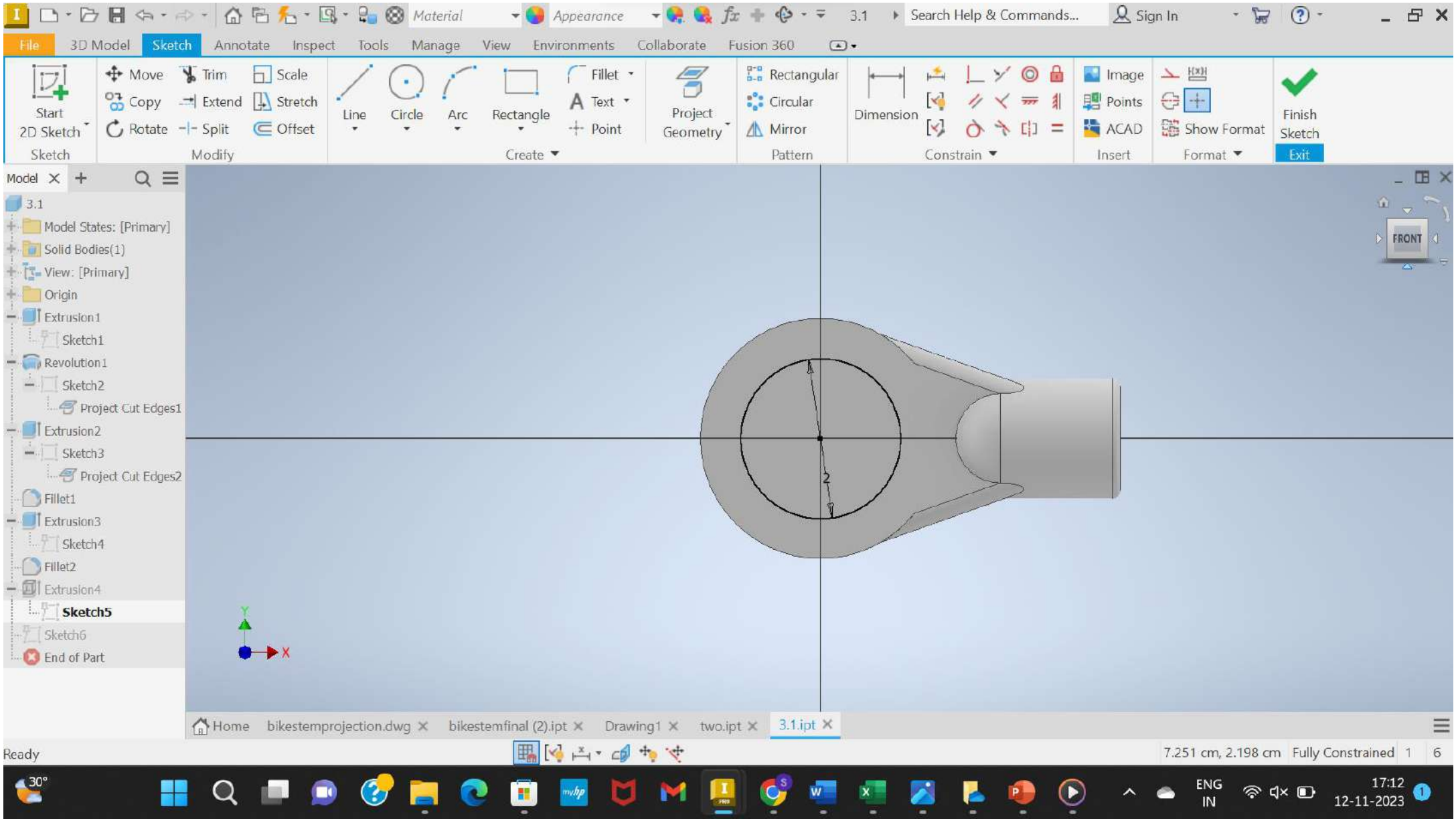
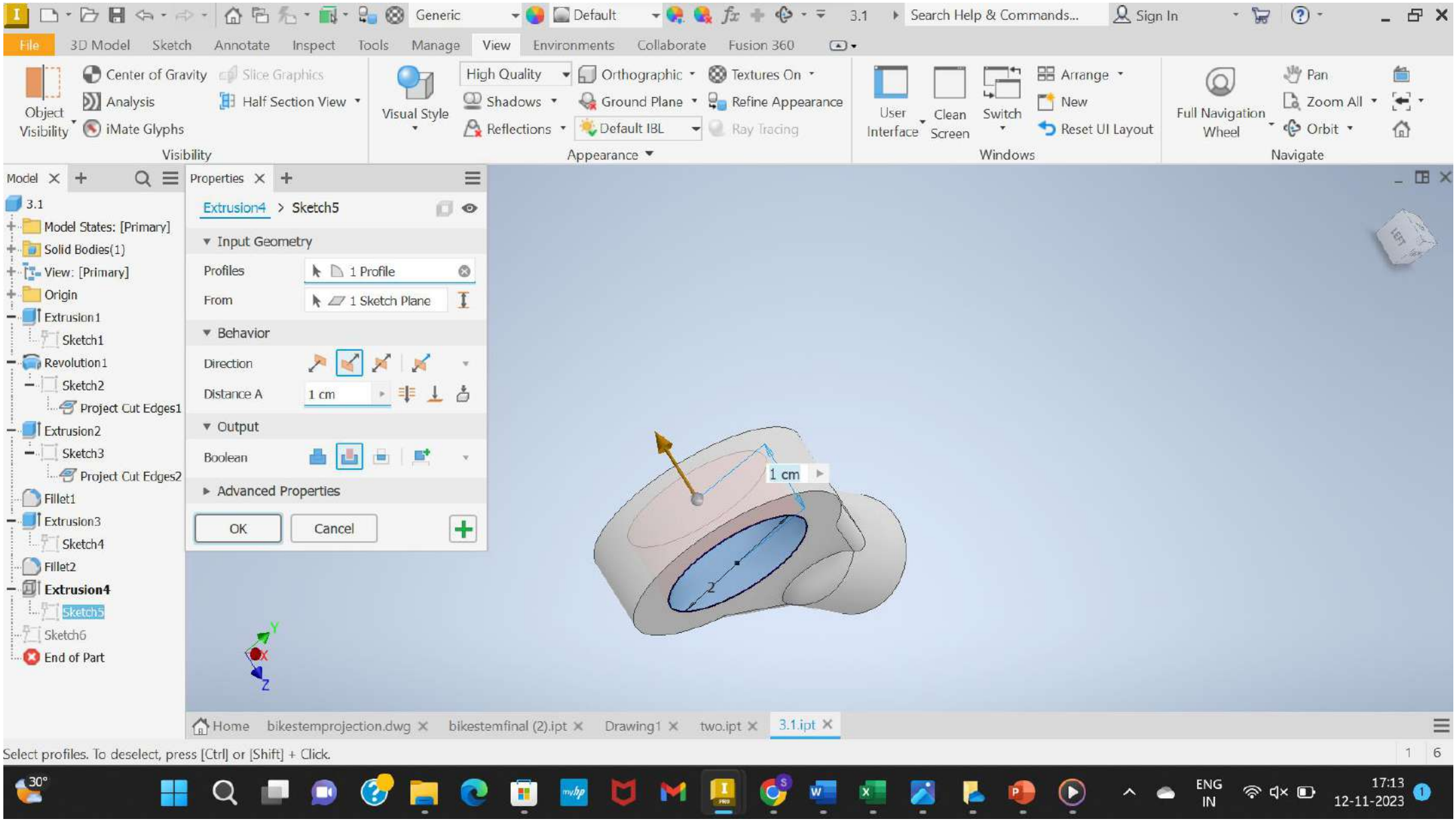
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Sketch4
Fillet2
Extrusion4
Sketch6
End of Part
Properties
Extrusion3 > Sketch4
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
1.5 cm
Output
Boolean
Advanced Properties
OK
Cancel
1.5 cm
0.7
BACK
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:09
12-11-2023


Generic
Default
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Sketch4
Fillet2
Extrusion4
Sketch6
End of Part
Properties
Fillet2
Selection Sets
Constant Radius Edge Sets
1 Edge
0.1 cm
Advanced Properties
OK
Cancel
0.1 cm
RIGHT
Y
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Select edges to fillet. To deselect, press [Ctrl] or [Shift] + Click.
20°
ENG
IN
17:10
12-11-2023


Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Point
Extrusion1
Revolution1
Extrusion2
Fillet1
Extrusion3
Fillet2
End of Part
RIGHT
Z
Home
Part1
Ready
30°
ENG
IN
17:12
12-11-2023


Material
Appearance
3.1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Sketch4
Fillet2
Extrusion4
Sketch5
Sketch6
End of Part
FRONT
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Ready
7.251 cm, 2.198 cm
Fully Constrained
1
6
30°
ENG
IN
17:12
12-11-2023


Generic
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3.1
Search Help & Commands...
Sign In
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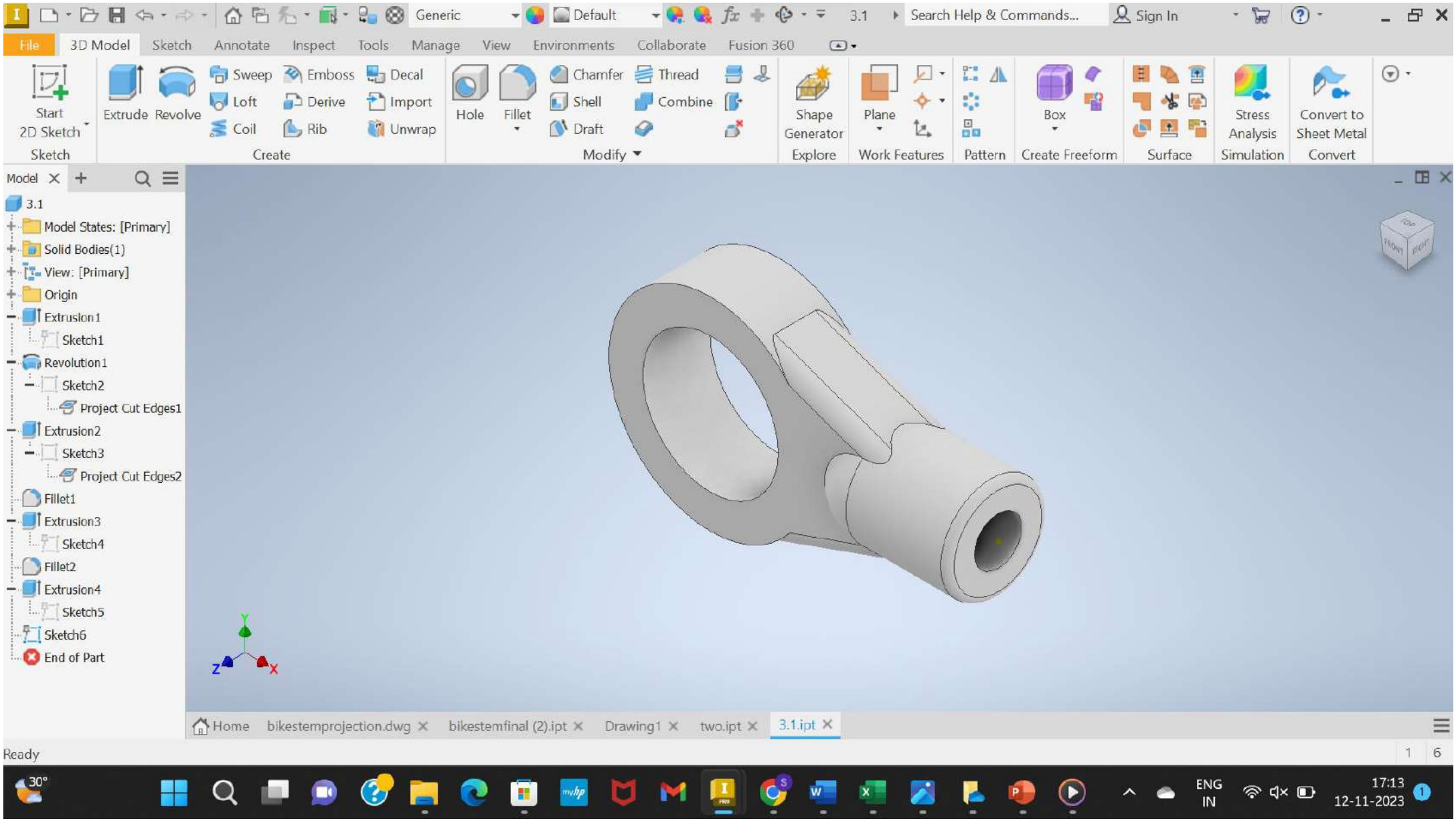
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Sketch4
Fillet2
Extrusion4
Sketch5
Sketch6
End of Part
Properties
Extrusion4 > Sketch5
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
1 cm
Output
Boolean
Advanced Properties
OK
Cancel
1 cm
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
ENG
IN
17:13
12-11-2023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3.1
Search Help & Commands...
Sign In
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3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
3.1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Revolution1
Sketch2
Project Cut Edges1
Extrusion2
Sketch3
Project Cut Edges2
Fillet1
Extrusion3
Sketch4
Fillet2
Extrusion4
Sketch5
Sketch6
End of Part
Home
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two.ipt
3.1.ipt
Ready
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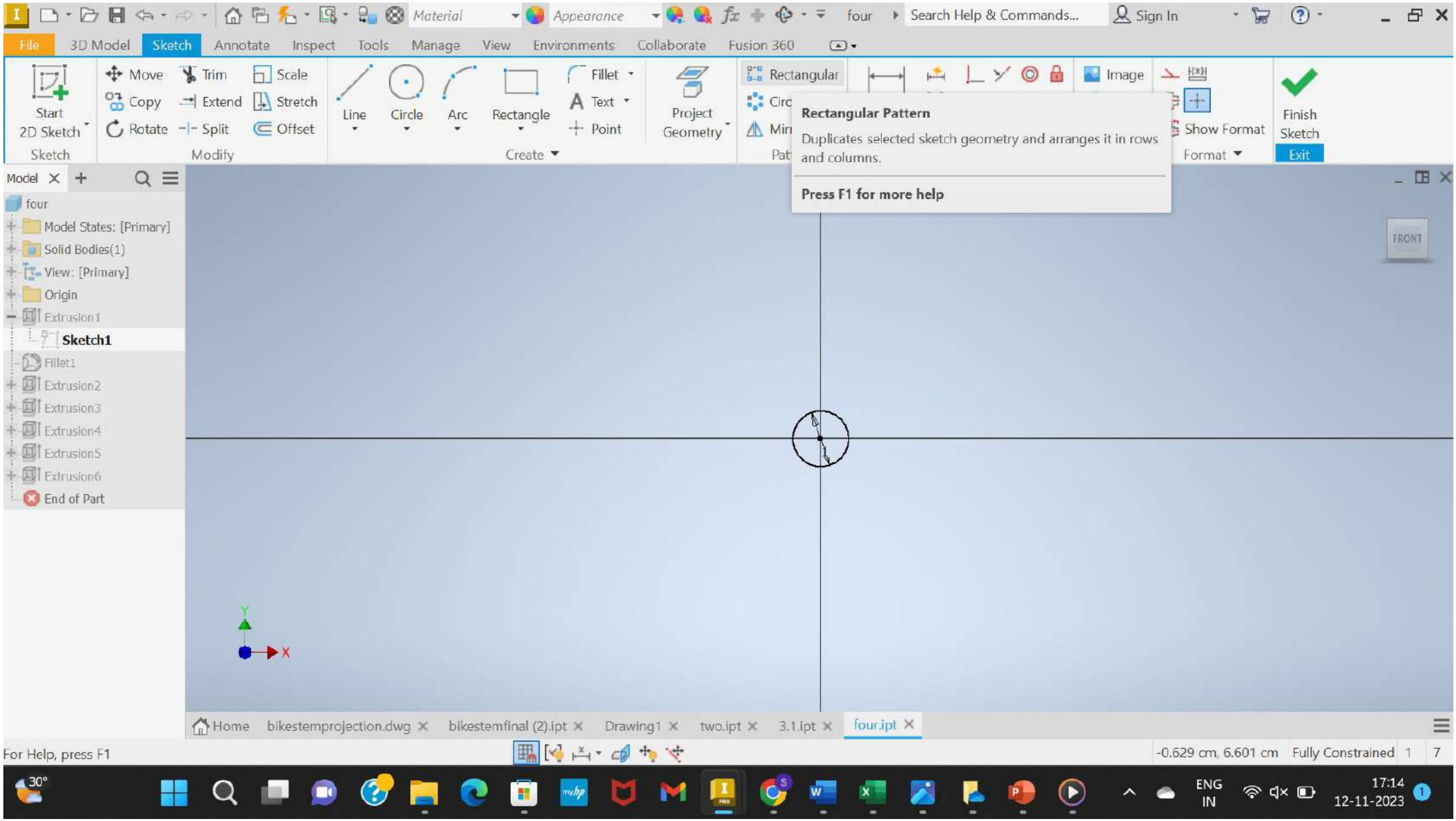
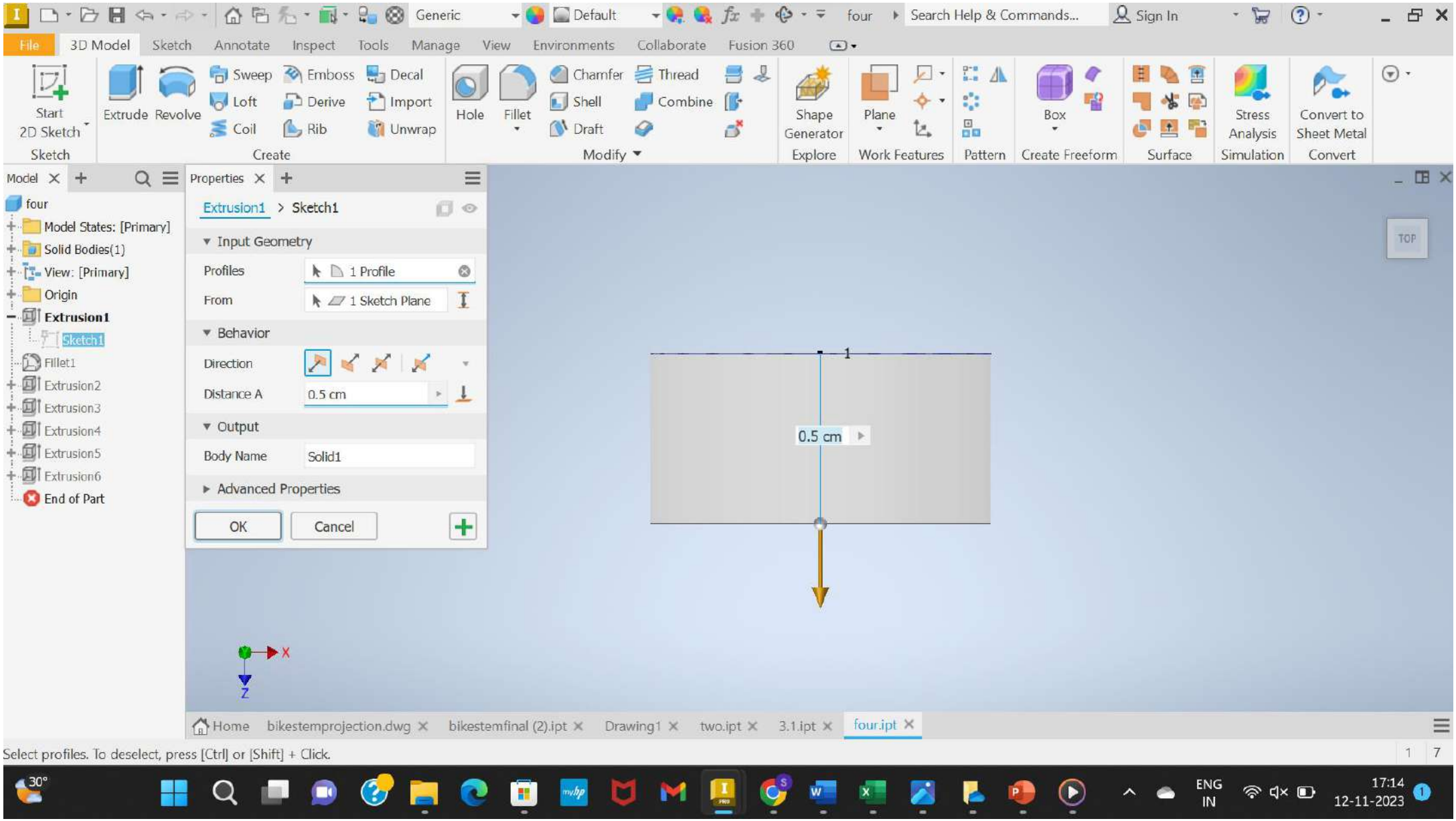
12-11-2023


Material
Appearance
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Trim
Scale
Copy
Extend
Stretch
Rotate
Split
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Image
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Format
Rectangular Pattern
Duplicates selected sketch geometry and arranges it in rows and columns.
Press F1 for more help
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Extrusion5
Extrusion6
End of Part
FRONT
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
For Help, press F1
-0.629 cm, 6.601 cm
Fully Constrained
1
7
30°
ENG
IN
17:14
12-11-2023


Generic
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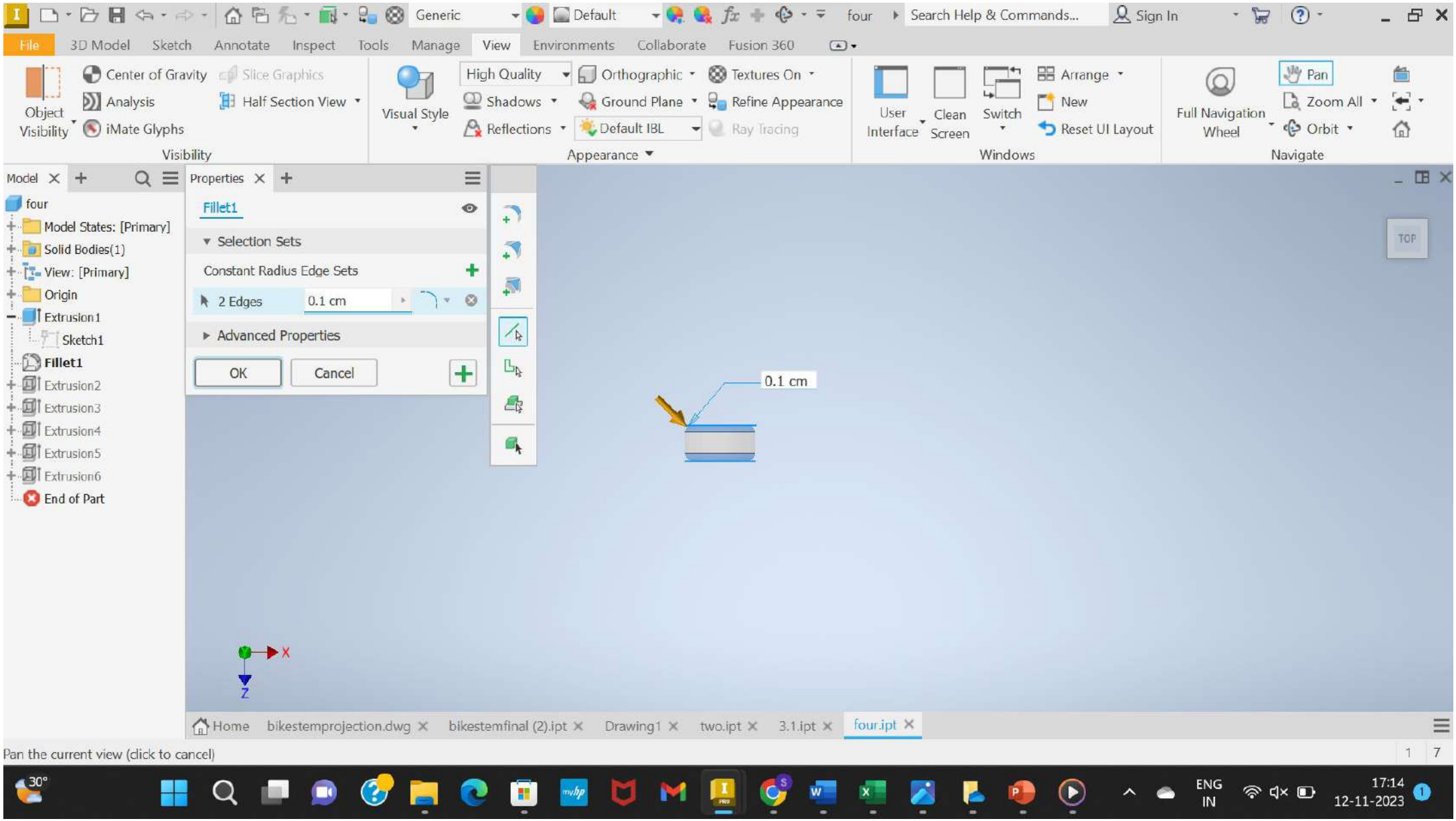
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Extrusion5
Extrusion6
End of Part
Properties
Extrusion1 > Sketch1
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Body Name
Solid1
Advanced Properties
OK
Cancel
1
0.5 cm
TOP
X
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
30°
ENG
IN
17:14
12-11-2023


Generic
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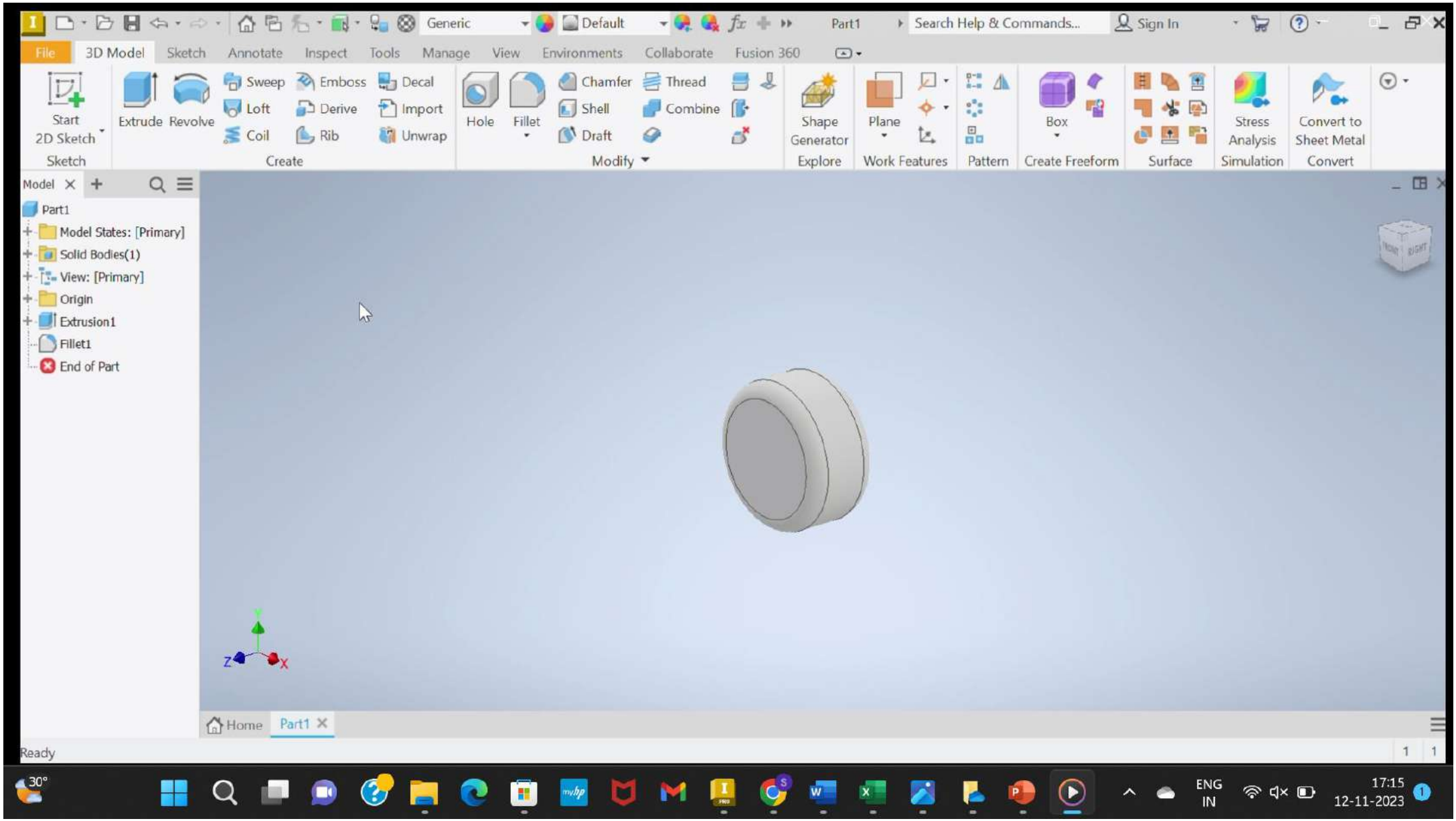
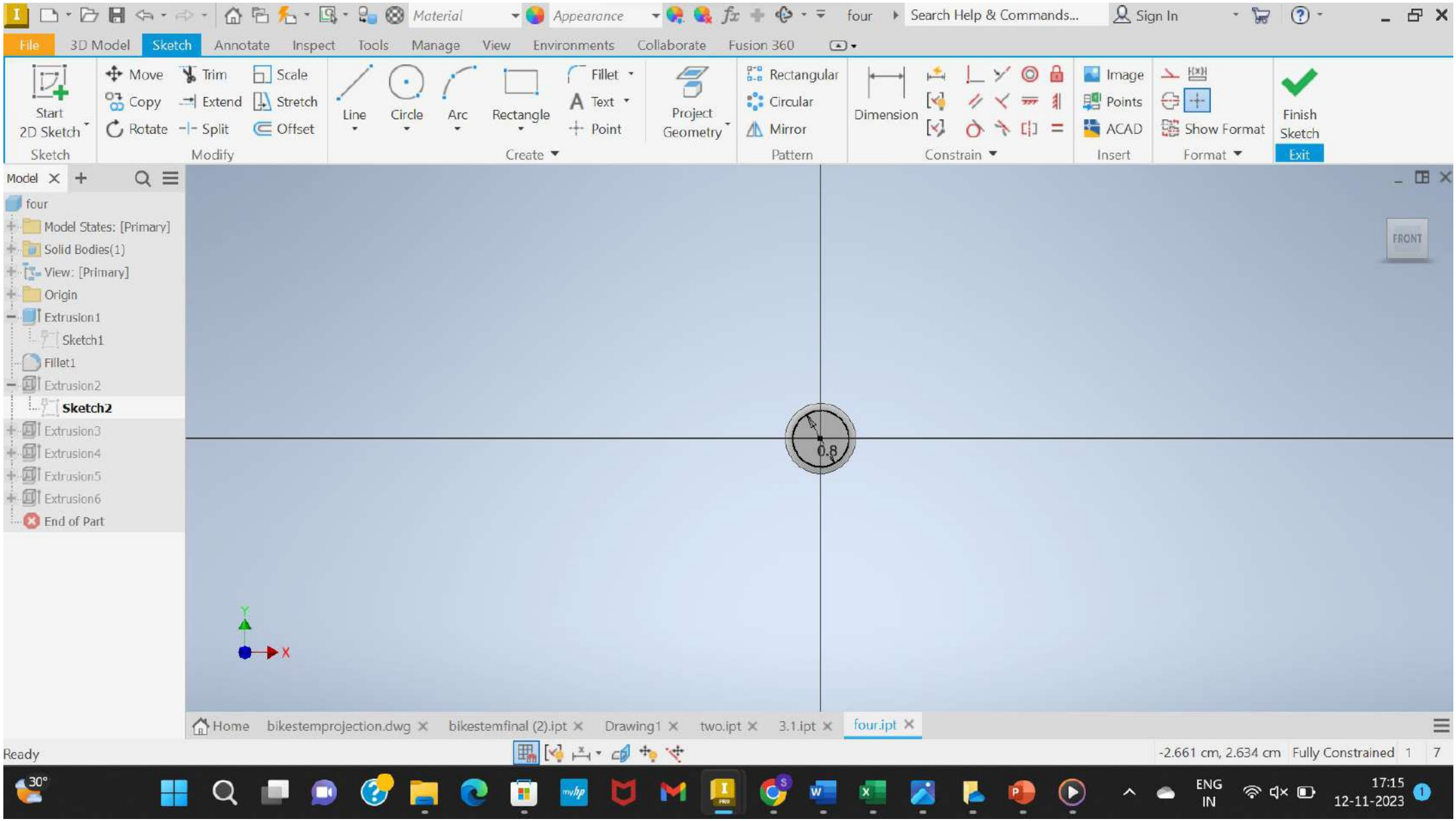
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Extrusion5
Extrusion6
End of Part
Properties
Fillet1
Selection Sets
Constant Radius Edge Sets
2 Edges
0.1 cm
Advanced Properties
OK
Cancel
0.1 cm
TOP
X
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Pan the current view (click to cancel)
30°
ENG
IN
17:14
12-11-2023


Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Create
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Modify
Shape Generator
Explore
Plane
Work Features
Pattern
Box
Create Freeform
Surface
Stress Analysis
Simulation
Convert to Sheet Metal
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Fillet1
End of Part
Home
Part1
Ready
30°
ENG
IN
17:15
12-11-2023


Material
Appearance
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
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Move
Copy
Rotate
Trim
Extend
Split
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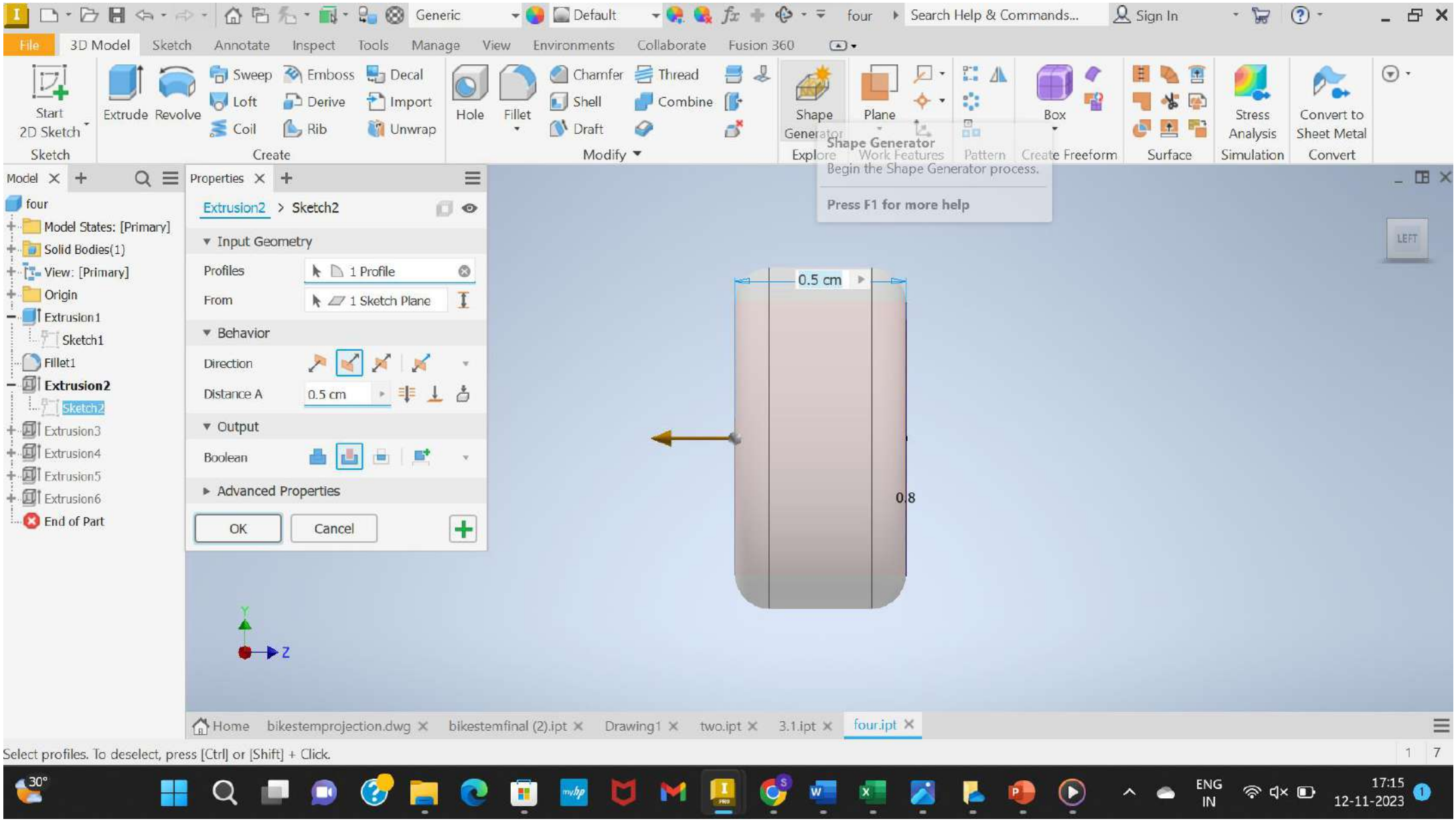
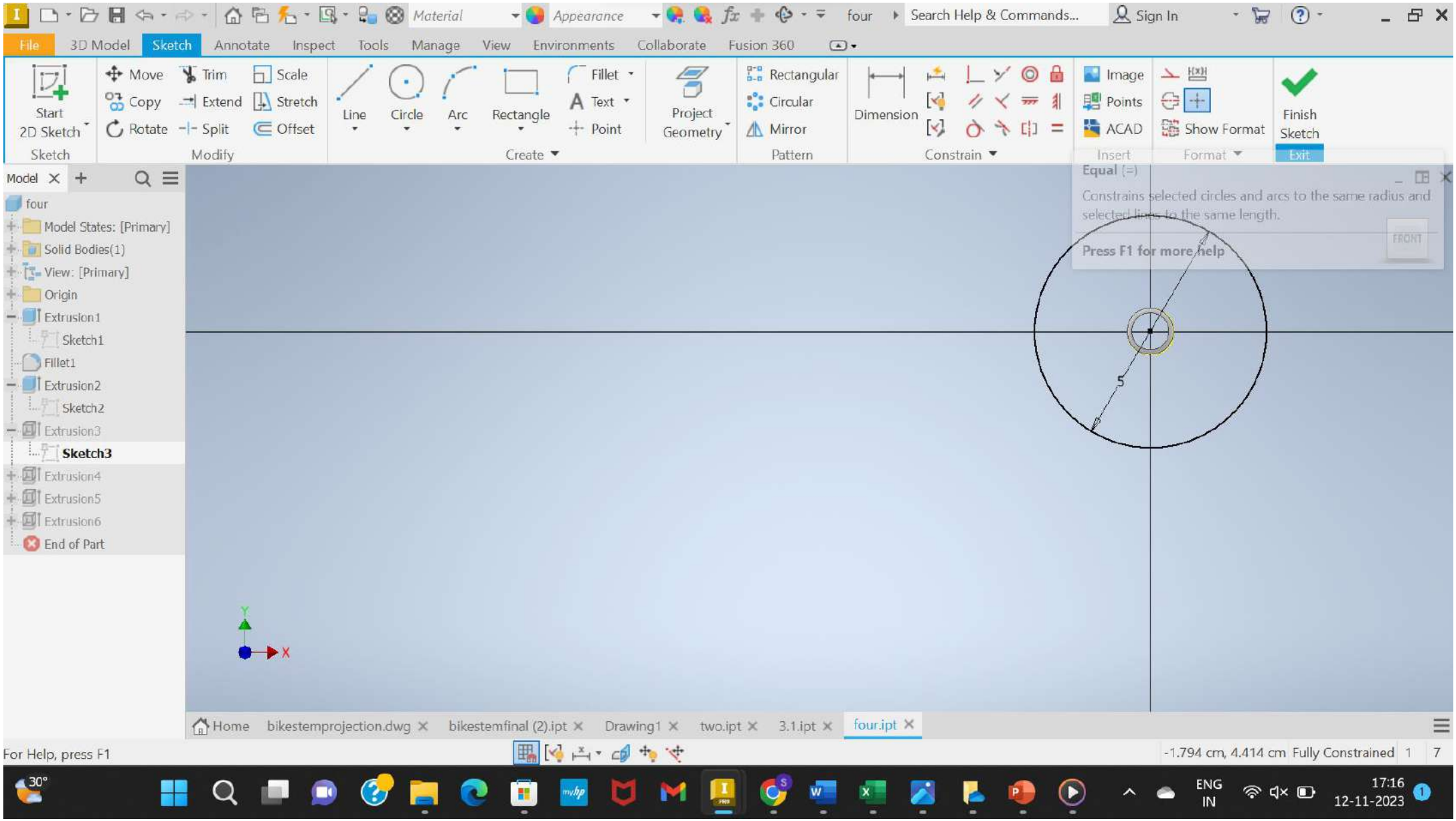
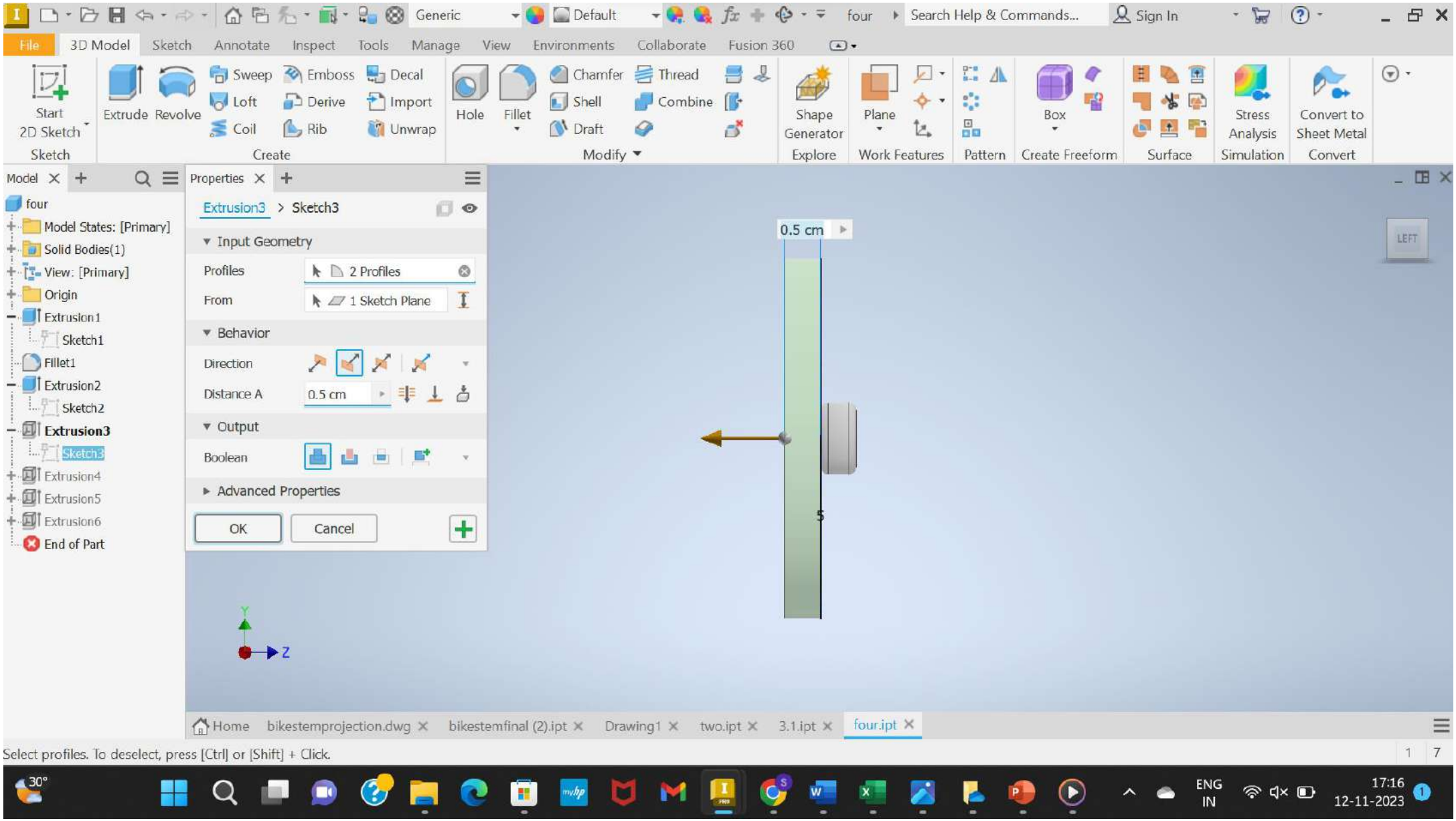
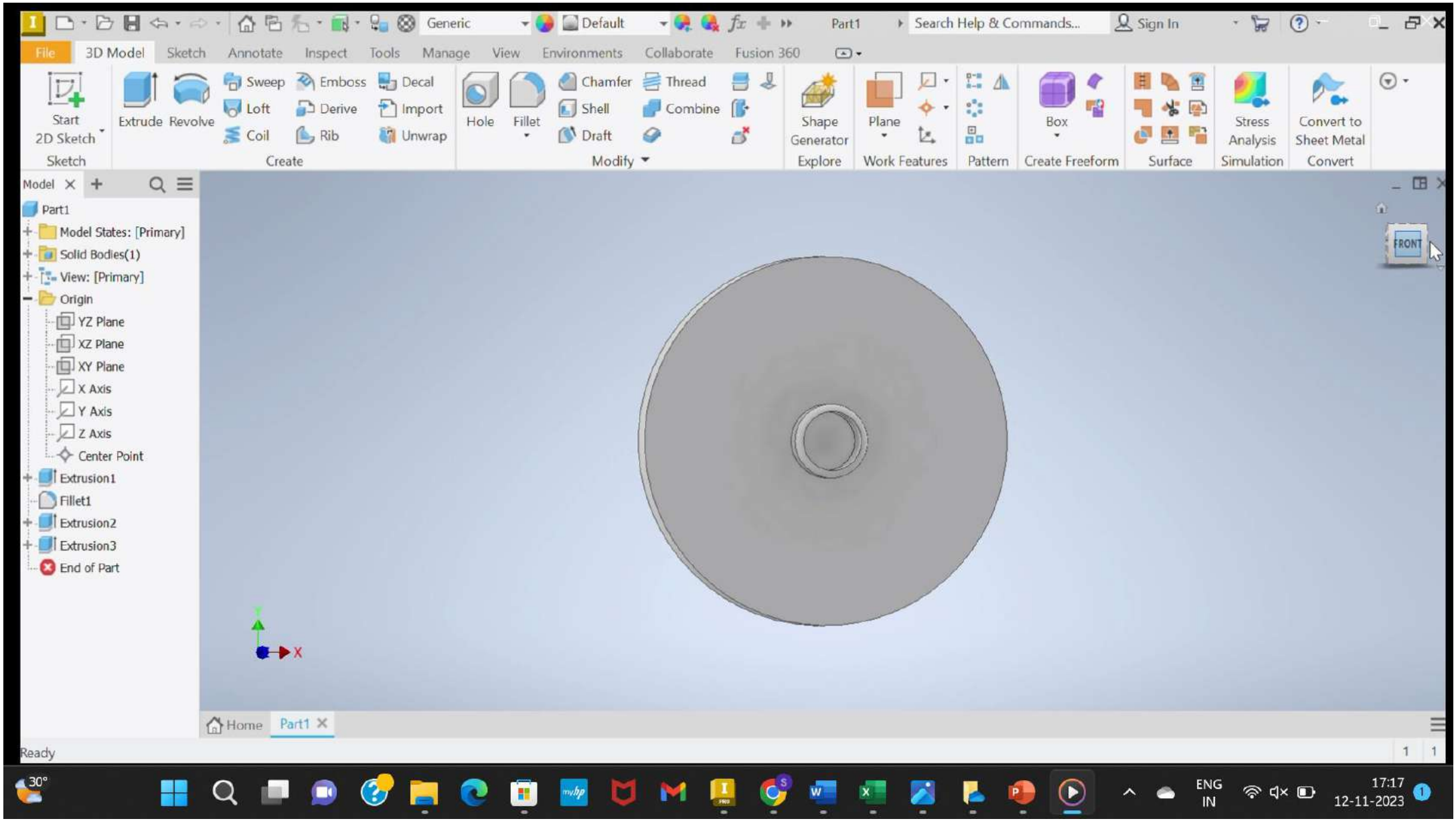
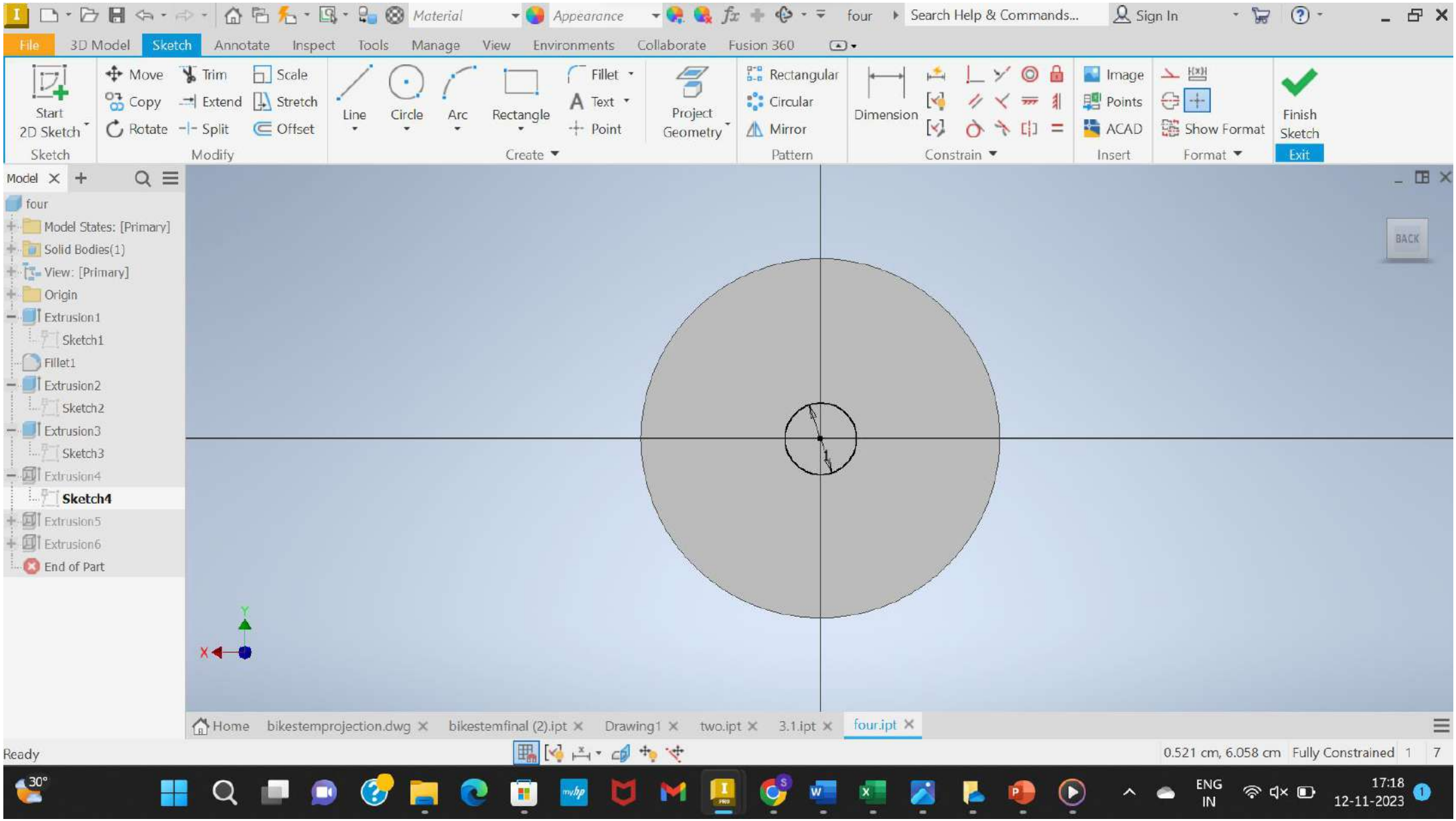
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Extrusion4
Extrusion5
Extrusion6
End of Part
FRONT
0.8
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
-2.661 cm, 2.634 cm
Fully Constrained
1
7
30°
ENG
IN
17:15
12-11-2023

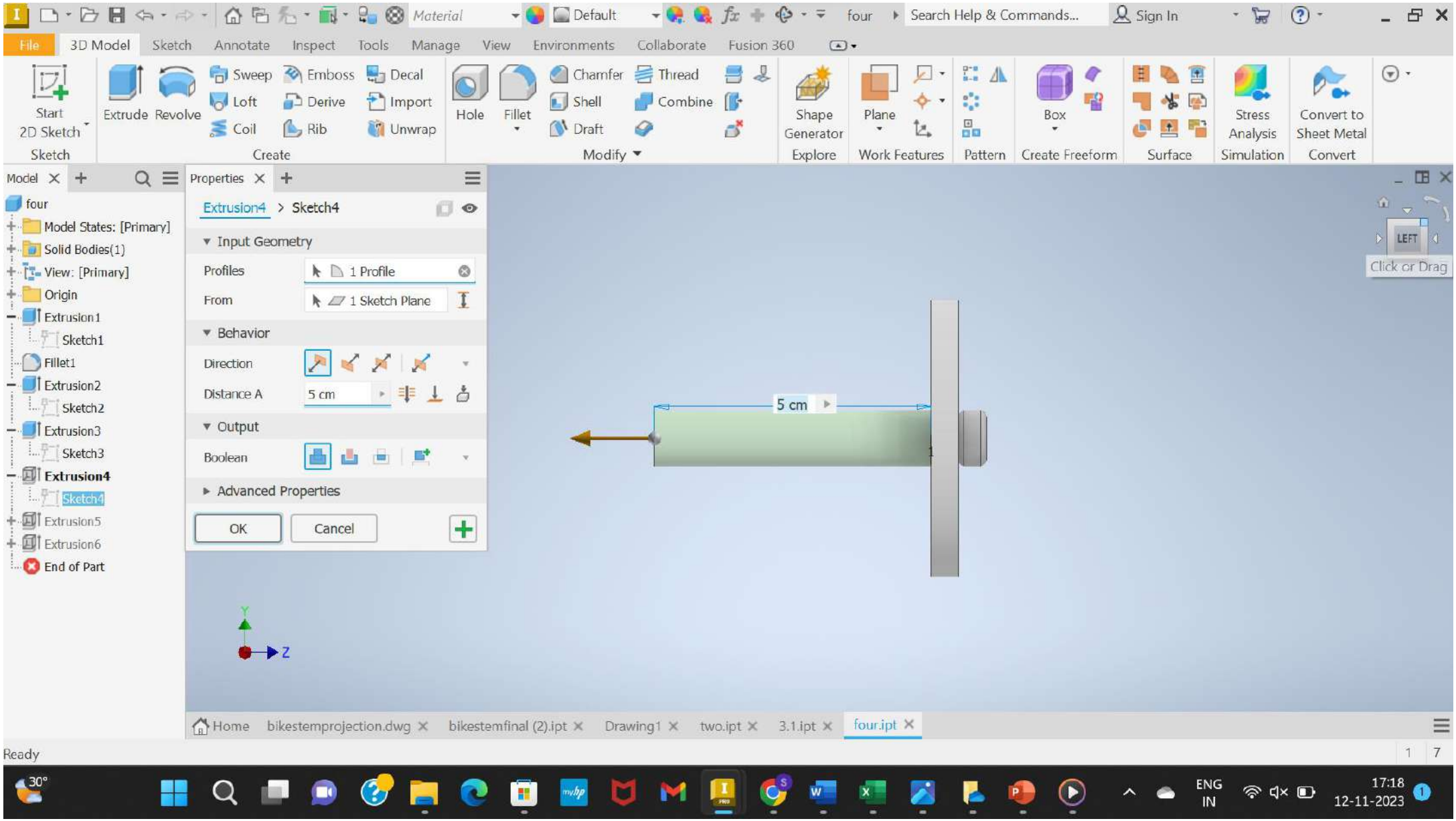

Generic
Default
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Shape Generator
Begin the Shape Generator process.
Press F1 for more help
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Extrusion4
Extrusion5
Extrusion6
End of Part
Properties
Extrusion2 > Sketch2
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Boolean
Advanced Properties
OK
Cancel
0.5 cm
0.8
LEFT
Y
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
30°
ENG
IN
17:15
12-11-2023

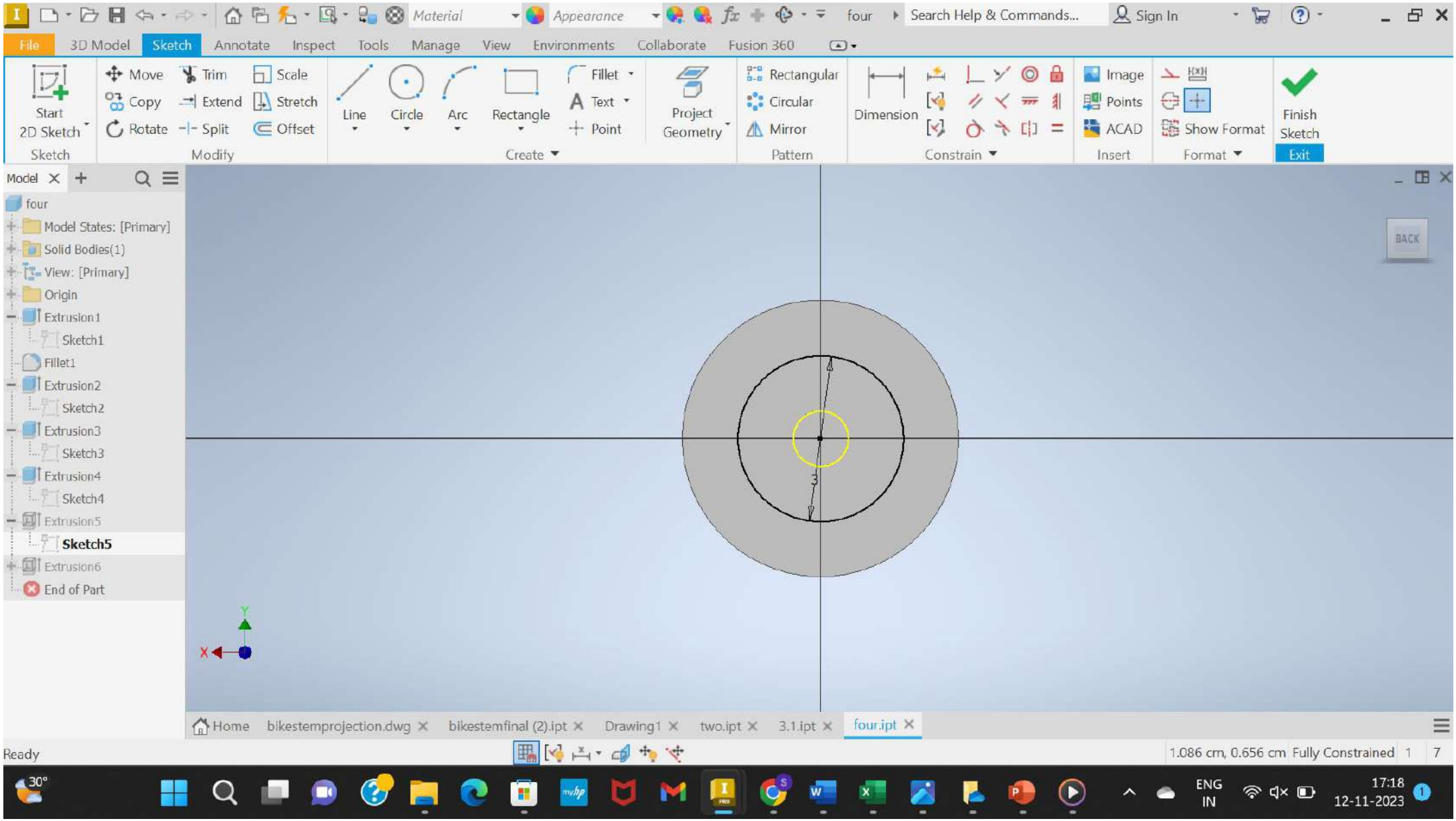

Material
Appearance
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Trim
Scale
Copy
Extend
Stretch
Rotate
Split
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Exit
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Extrusion5
Extrusion6
End of Part
Equal (=)
Constrains selected circles and arcs to the same radius and selected lines to the same length.
Press F1 for more help
FRONT
5
Y
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
For Help, press F1
-1.794 cm, 4.414 cm
Fully Constrained
30°
ENG
IN
17:16
12-11-2023

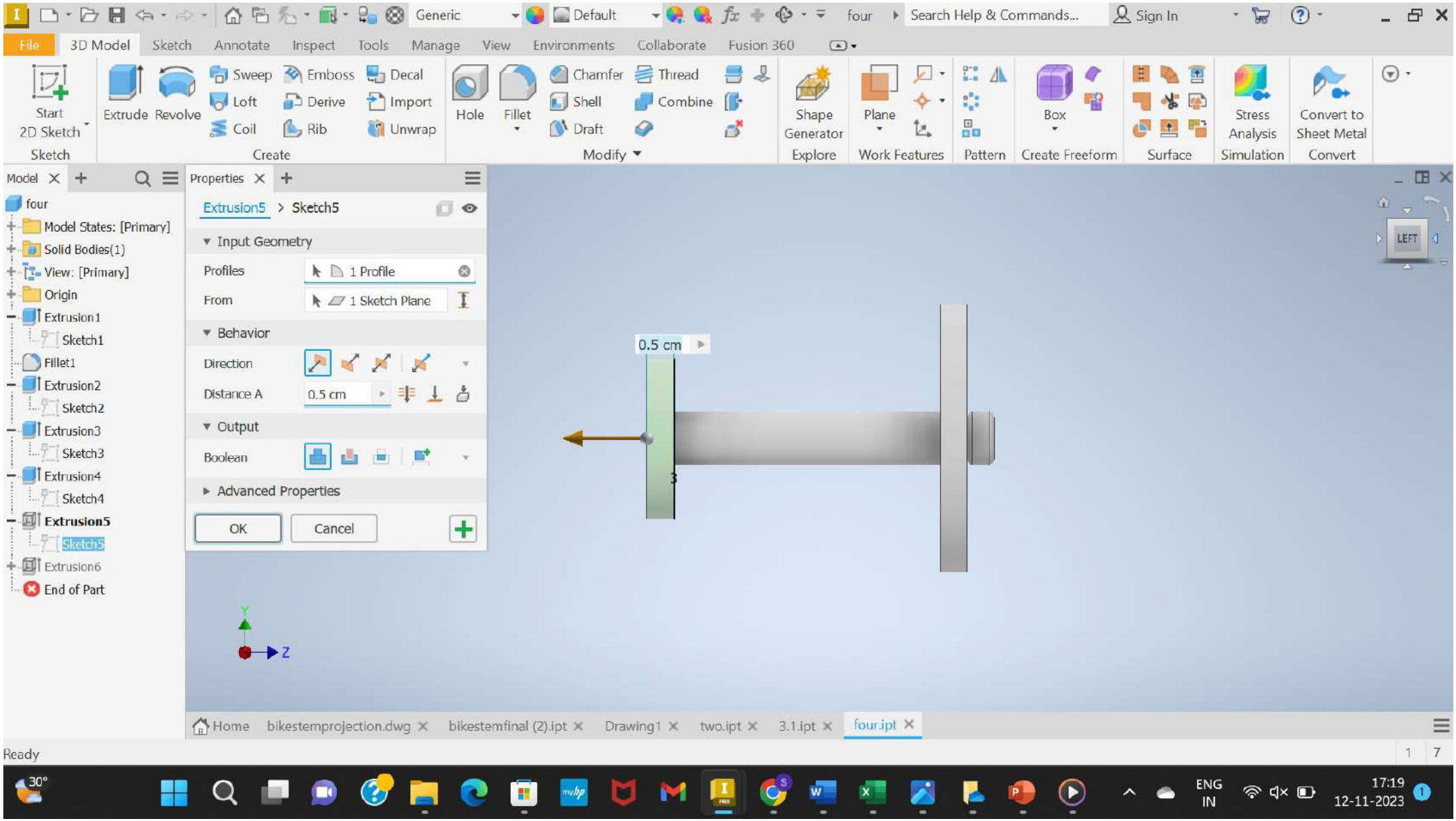

Generic
Default
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Extrusion5
Extrusion6
End of Part
Properties
Extrusion3 > Sketch3
Input Geometry
Profiles
2 Profiles
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Boolean
Advanced Properties
OK
Cancel
0.5 cm
5
LEFT
Y
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Select profiles. To deselect, press [Ctrl] or [Shift] + Click.
1
7
30°
ENG
IN
17:16
12-11-2023

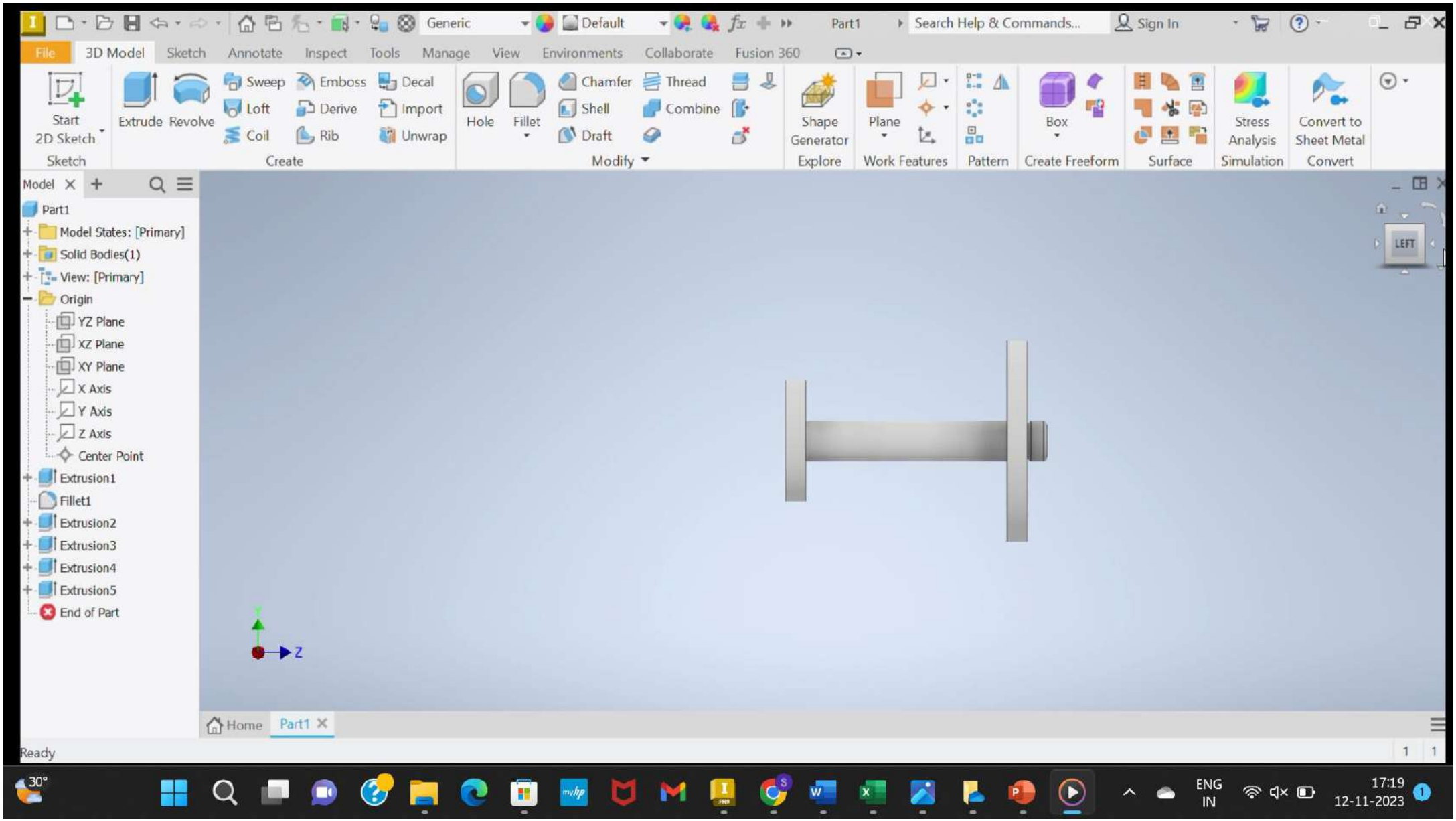

Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Point
Extrusion1
Fillet1
Extrusion2
Extrusion3
End of Part
FRONT
Y
X
Home
Part1
Ready
30°
ENG
IN
17:17
12-11-2023

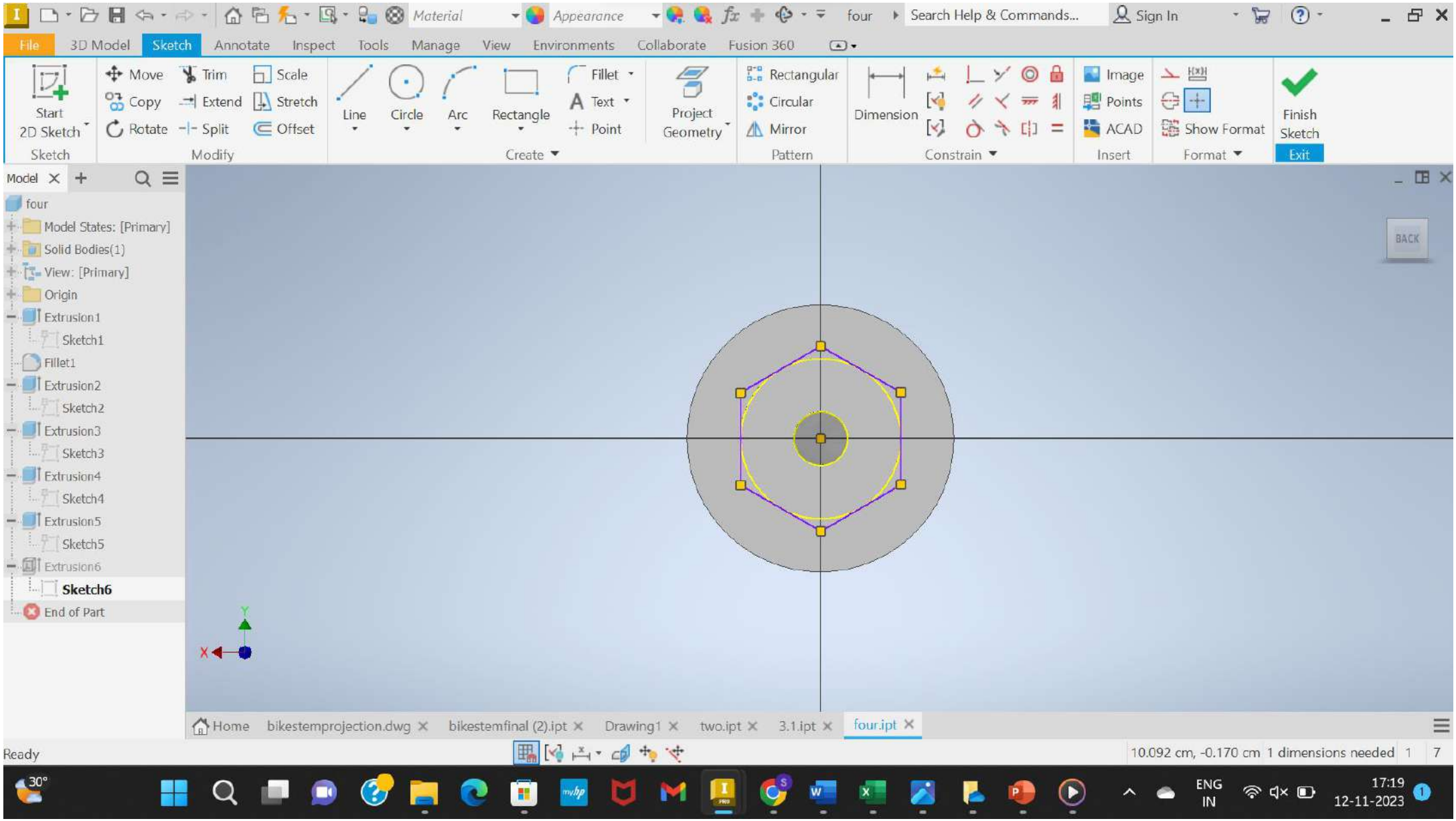

Material
Appearance
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Extrusion6
End of Part
BACK
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
0.521 cm, 6.058 cm
Fully Constrained
1
7
30°
ENG
IN
17:18
12-11-2023


Material
Default
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Extrusion6
End of Part
Properties
Extrusion4 > Sketch4
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
5 cm
Output
Boolean
Advanced Properties
OK
Cancel
5 cm
LEFT
Click or Drag
Y
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
30°
ENG
IN
17:18
12-11-2023


Material
Appearance
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Sketch5
Extrusion6
End of Part
BACK
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
1.086 cm, 0.656 cm
Fully Constrained
30°
ENG
IN
17:18
12-11-2023


Generic
Default
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Sketch5
Extrusion6
End of Part
Properties
Extrusion5 > Sketch5
Input Geometry
Profiles
1 Profile
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Boolean
Advanced Properties
OK
Cancel
0.5 cm
3
LEFT
Y
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
30°
ENG
IN
17:19
12-11-2023


Generic
Default
Part1
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
Part1
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
YZ Plane
XZ Plane
XY Plane
X Axis
Y Axis
Z Axis
Center Point
Extrusion1
Fillet1
Extrusion2
Extrusion3
Extrusion4
Extrusion5
End of Part
LEFT
Z
Home
Part1
Ready
30°
ENG
IN
17:19
12-11-2023


Material
Appearance
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
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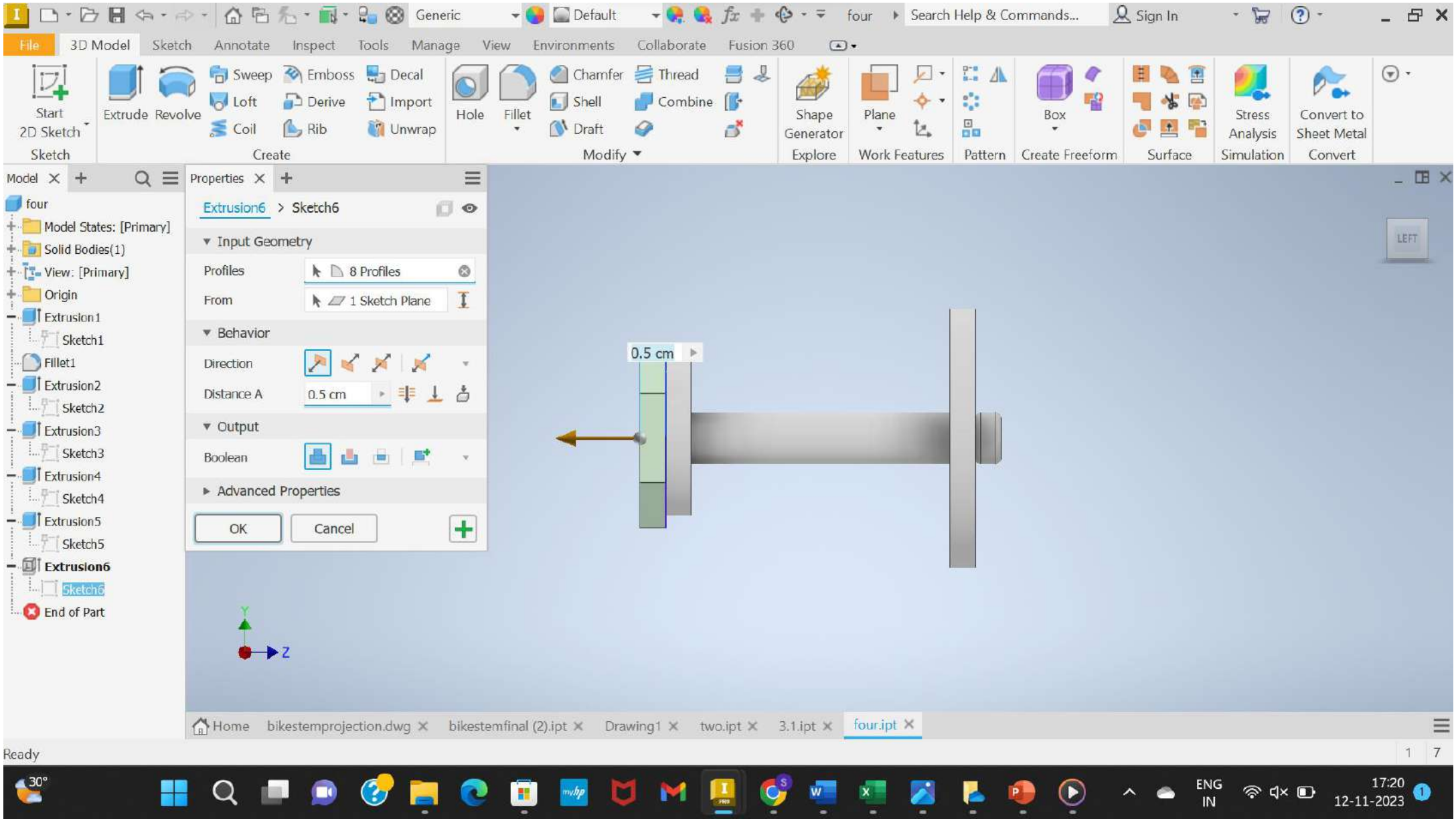
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Move
Copy
Rotate
Trim
Extend
Split
Scale
Stretch
Offset
Line
Circle
Arc
Rectangle
Fillet
Text
Point
Project Geometry
Rectangular
Circular
Mirror
Dimension
Image
Points
ACAD
Show Format
Finish Sketch
Exit
Sketch
Modify
Create
Pattern
Constrain
Insert
Format
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Sketch5
Extrusion6
Sketch6
End of Part
BACK
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
10.092 cm, -0.170 cm
1 dimensions needed
ENG
IN
17:19
12-11-2023


Generic
Default
four
Search Help & Commands...
Sign In
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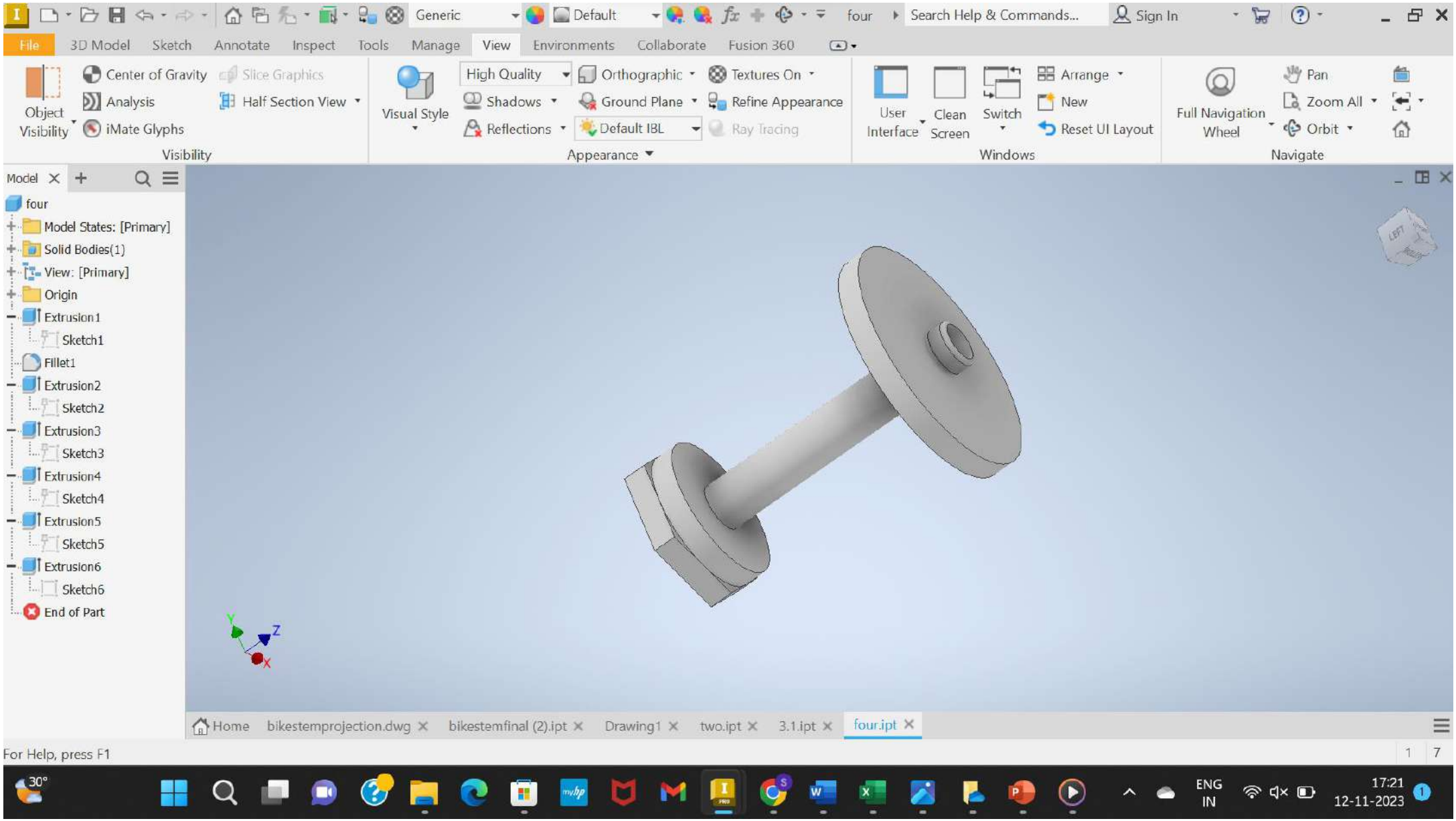
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Start 2D Sketch
Extrude
Revolve
Sweep
Loft
Coil
Emboss
Derive
Rib
Decal
Import
Unwrap
Hole
Fillet
Chamfer
Shell
Draft
Thread
Combine
Shape Generator
Plane
Box
Stress Analysis
Convert to Sheet Metal
Sketch
Create
Modify
Explore
Work Features
Pattern
Create Freeform
Surface
Simulation
Convert
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Sketch5
Extrusion6
Sketch6
End of Part
Properties
Extrusion6 > Sketch6
Input Geometry
Profiles
8 Profiles
From
1 Sketch Plane
Behavior
Direction
Distance A
0.5 cm
Output
Boolean
Advanced Properties
OK
Cancel
0.5 cm
LEFT
Y
Z
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
Ready
30°
ENG
IN
17:20
12-11-2023


Generic
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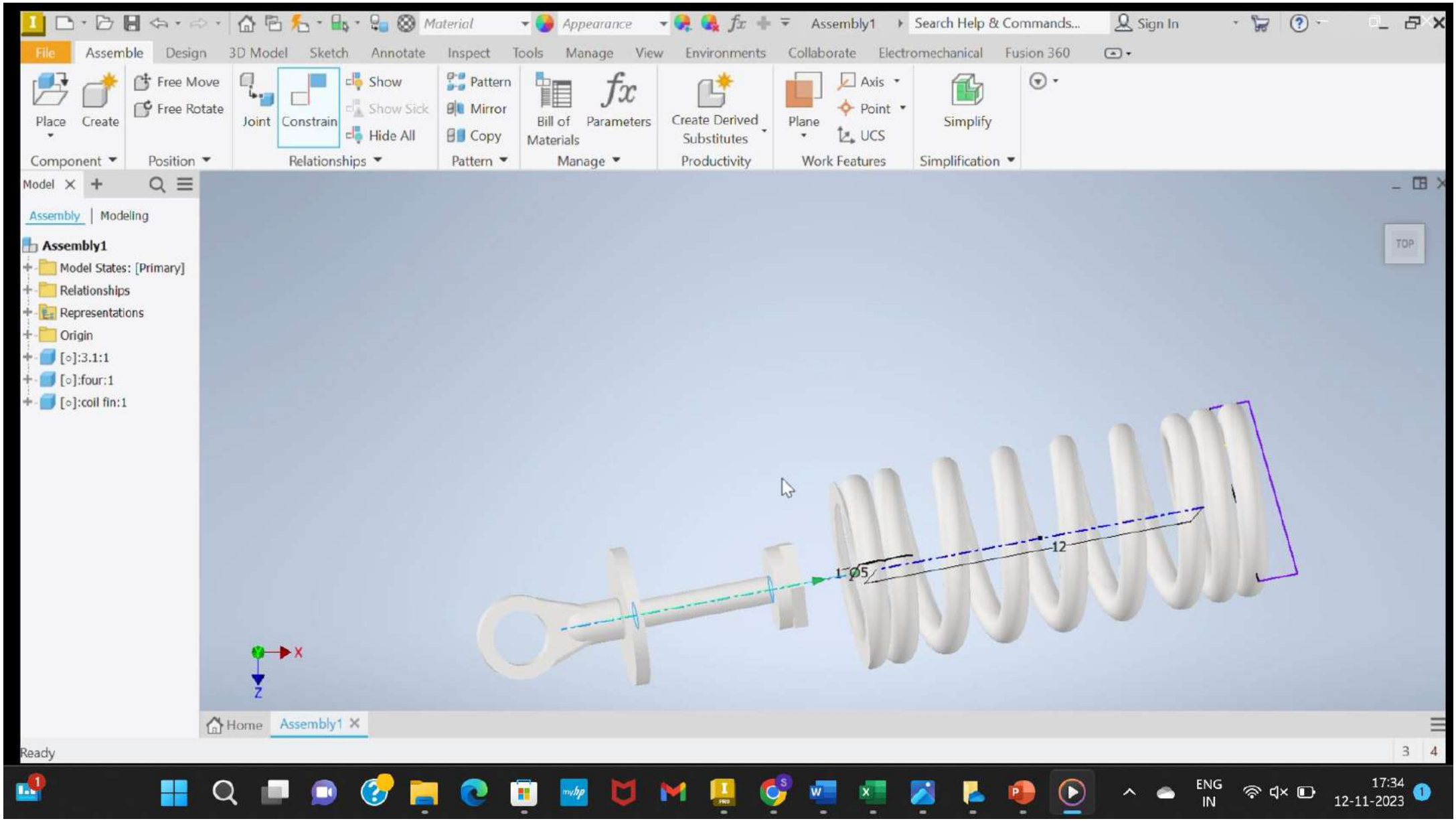
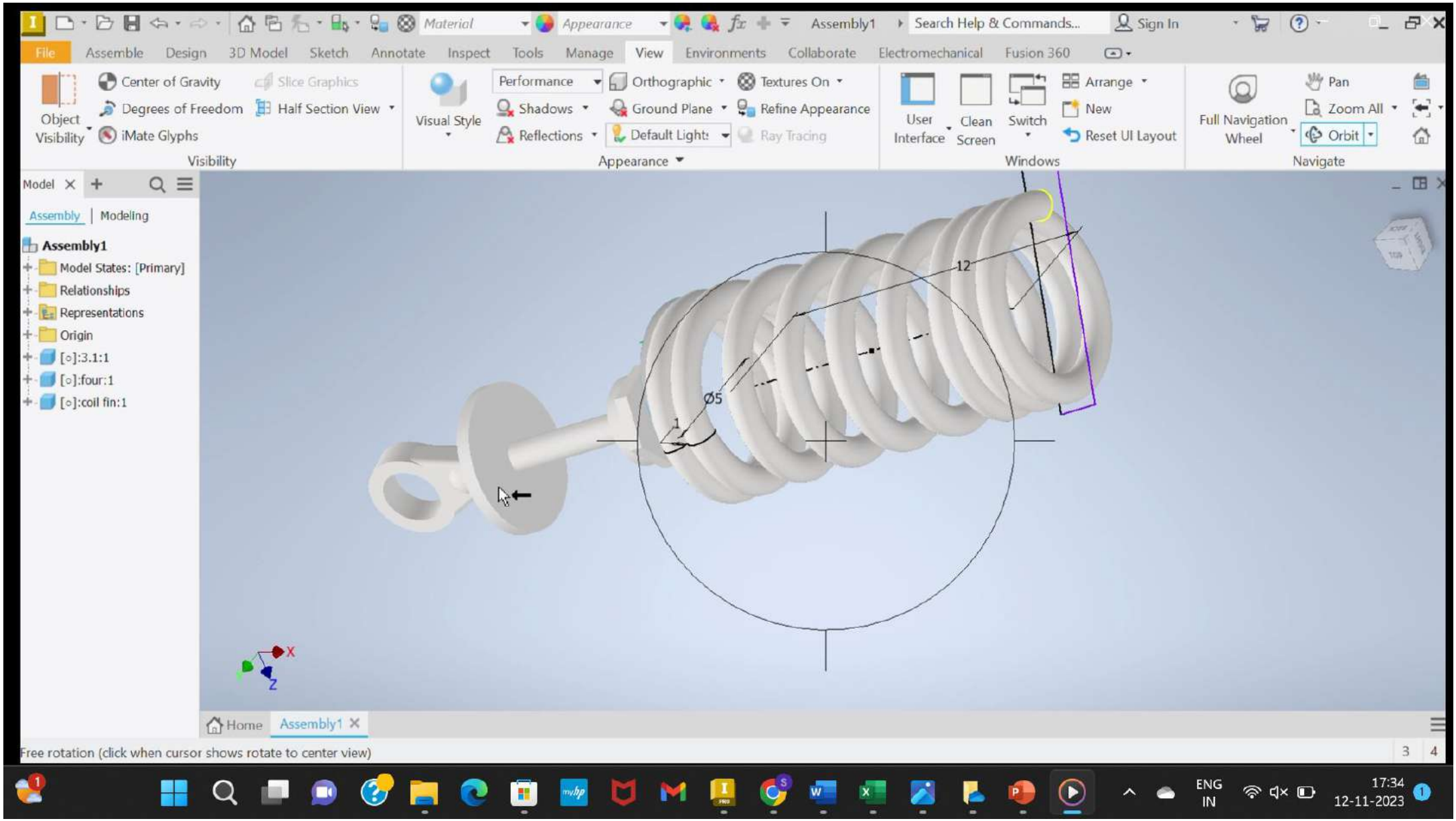
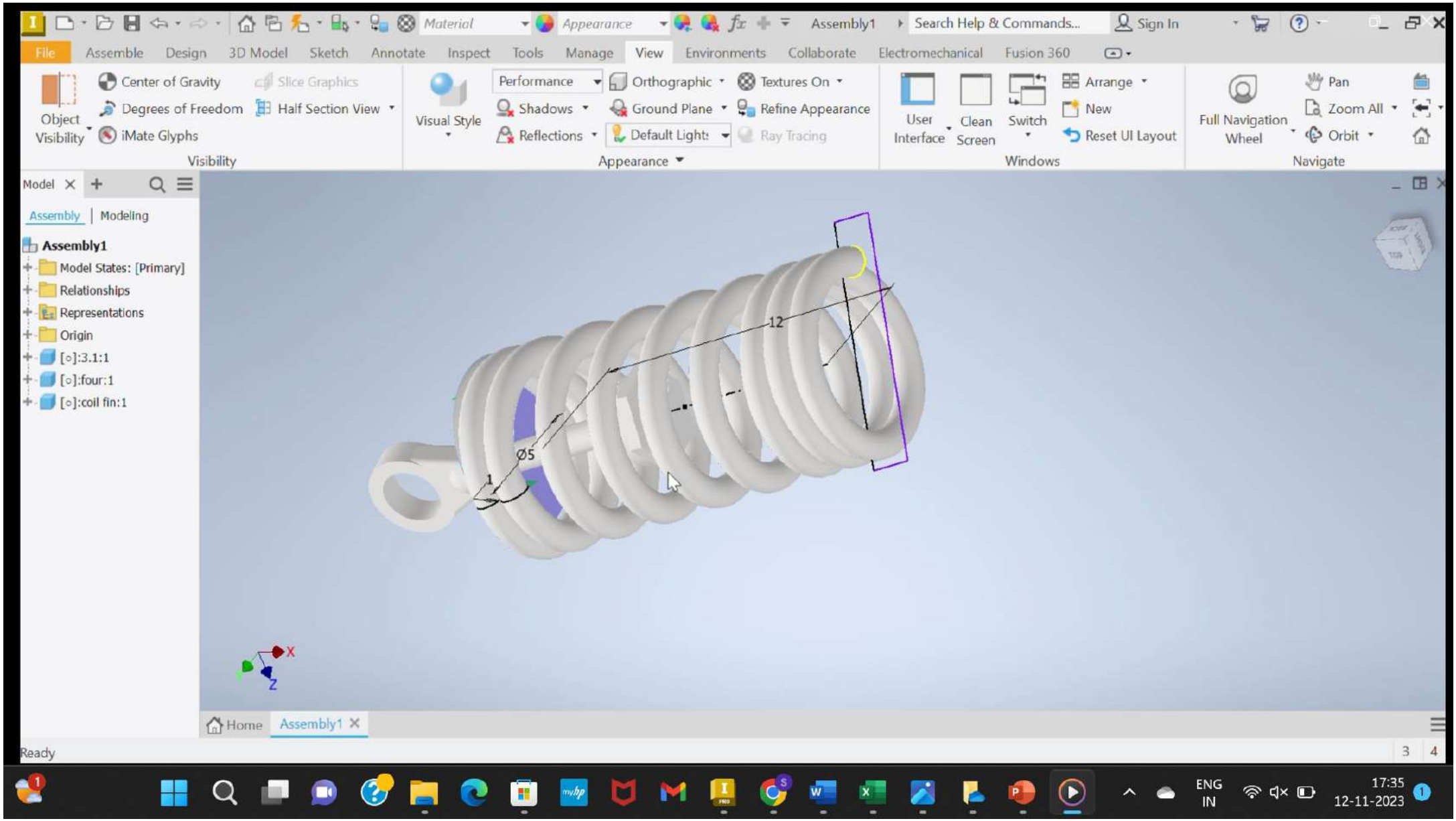
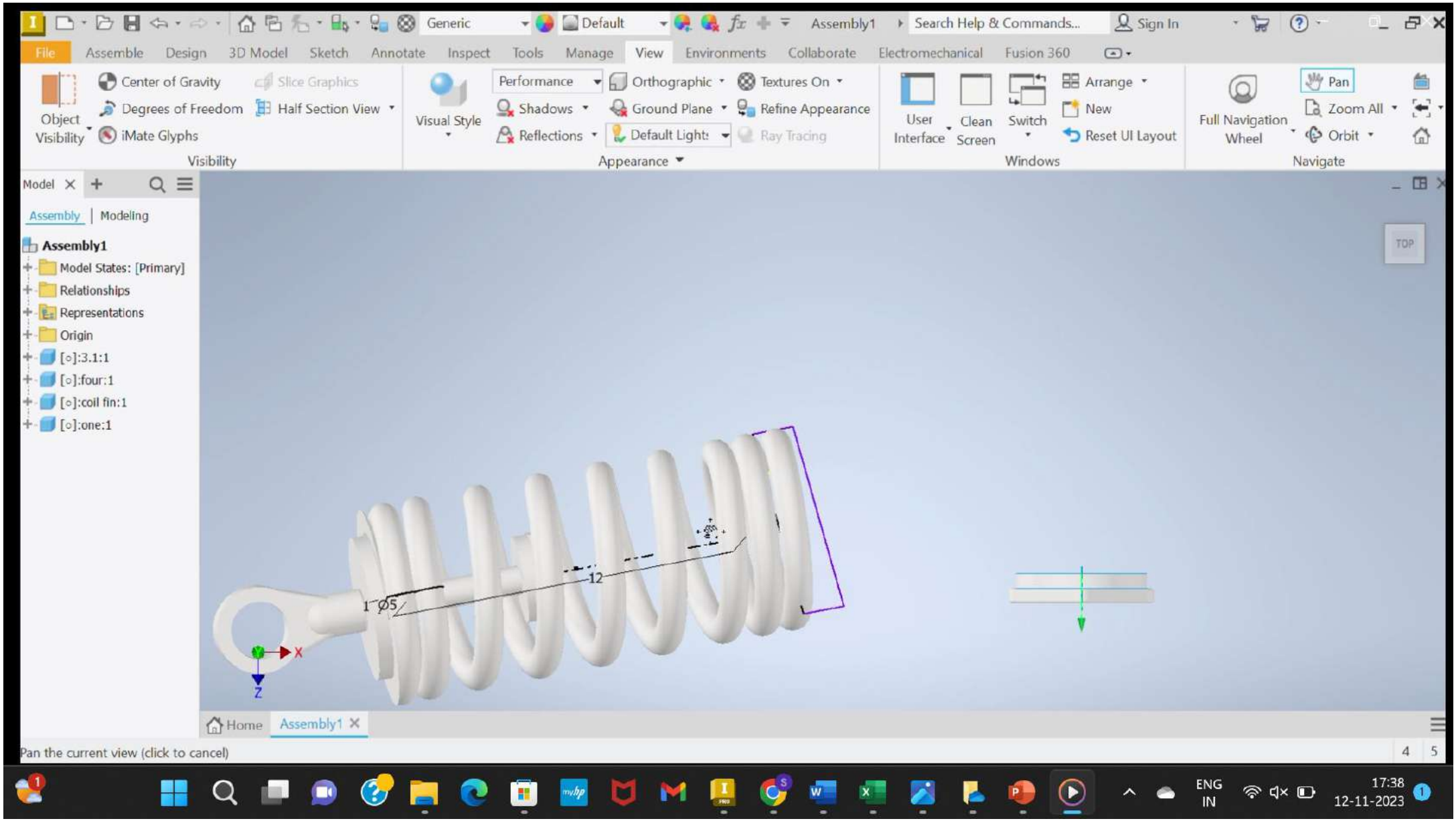
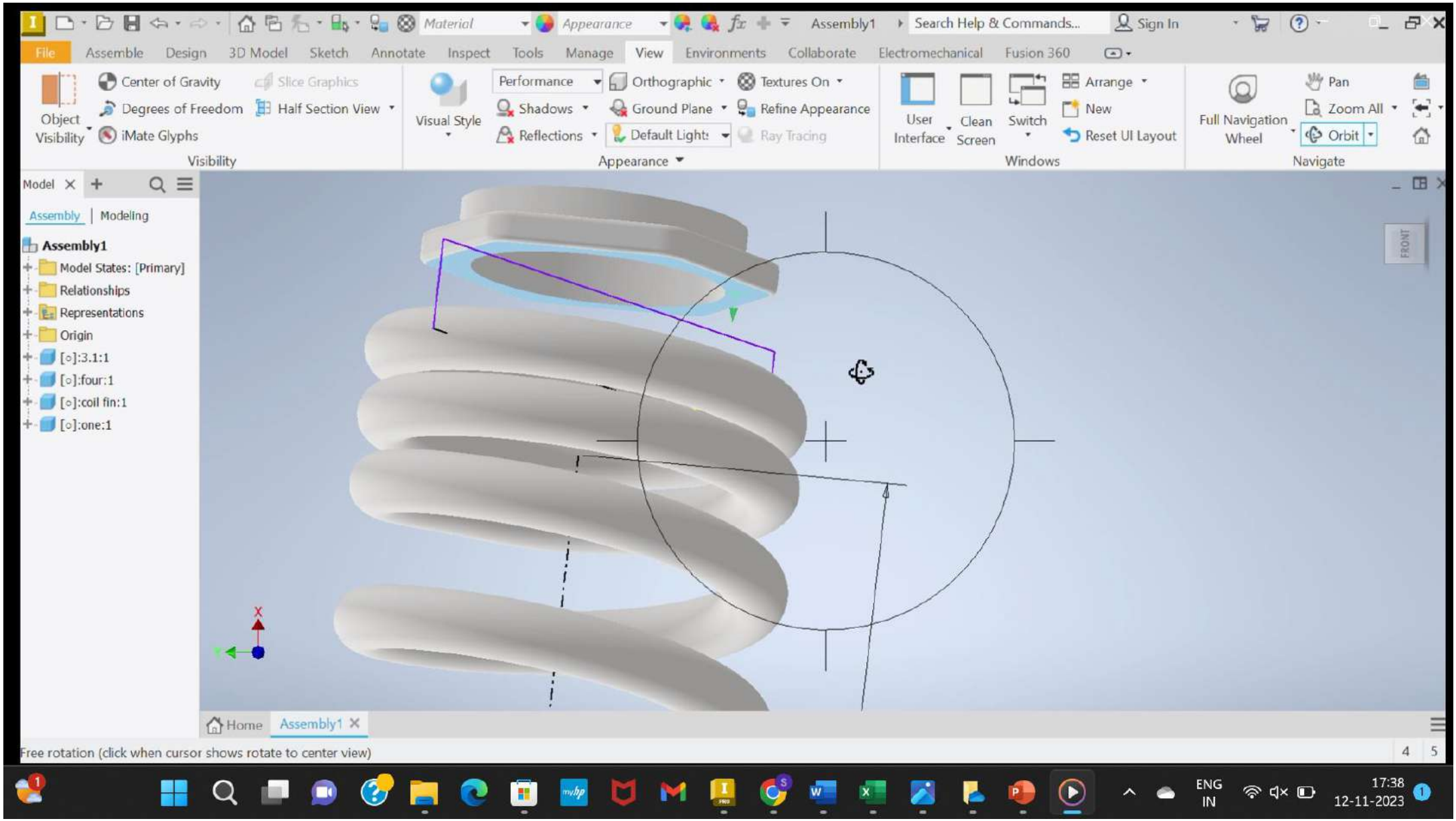
four
Search Help & Commands...
Sign In
File
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Fusion 360
Object Visibility
Center of Gravity
Analysis
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
High Quality
Shadows
Reflections
Orthographic
Ground Plane
Default IBL
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
four
Model States: [Primary]
Solid Bodies(1)
View: [Primary]
Origin
Extrusion1
Sketch1
Fillet1
Extrusion2
Sketch2
Extrusion3
Sketch3
Extrusion4
Sketch4
Extrusion5
Sketch5
Extrusion6
Sketch6
End of Part
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
For Help, press F1
30°
ENG
IN
17:21
12-11-2023

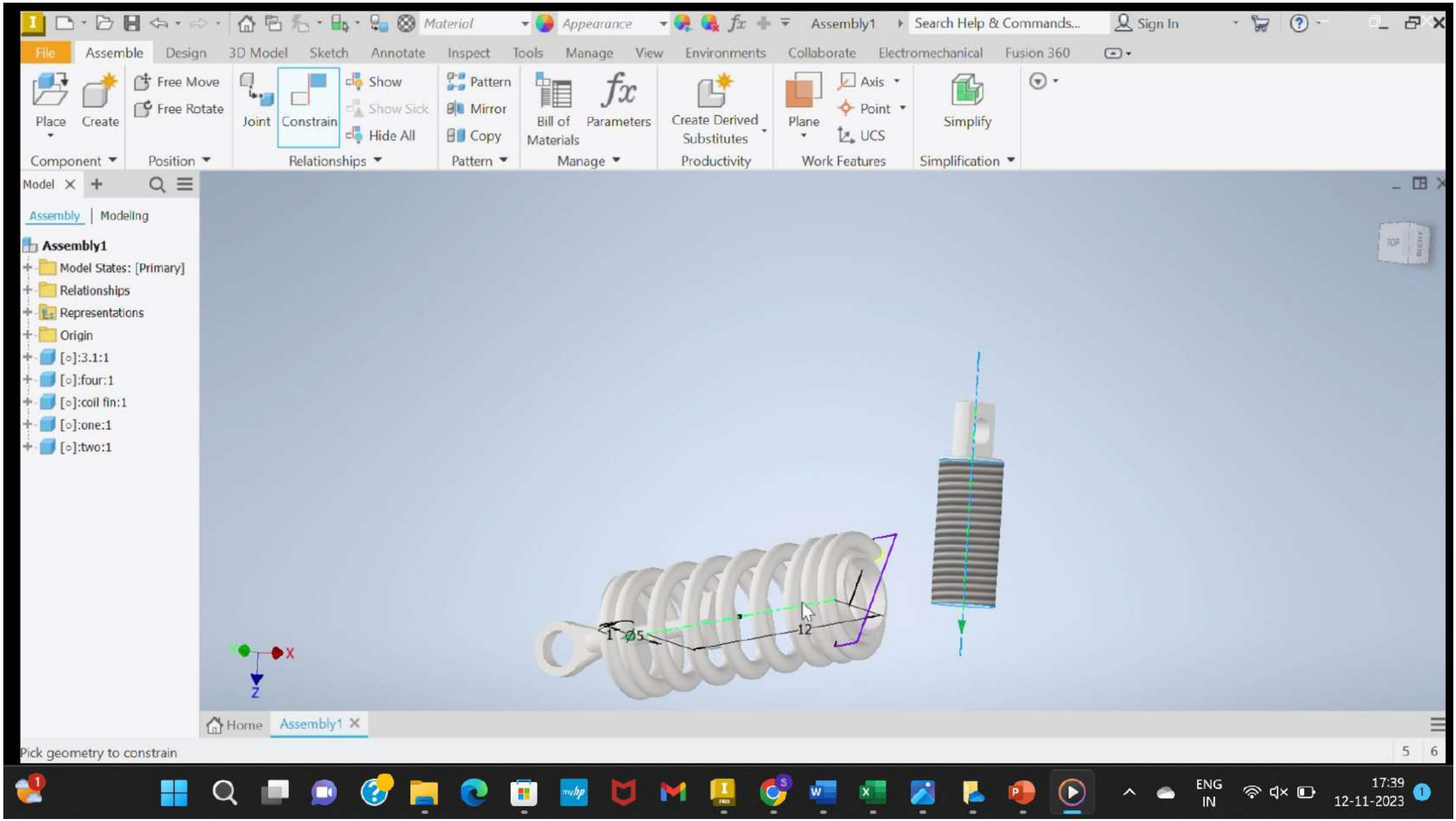

Material
Appearance
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
Point
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplification
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[◦]:3.1:1
[◦]:four:1
[◦]:coil fin:1
TOP
Ø5
12
X
Y
Z
Home
Assembly1
Ready
ENG
IN
17:34
12-11-2023

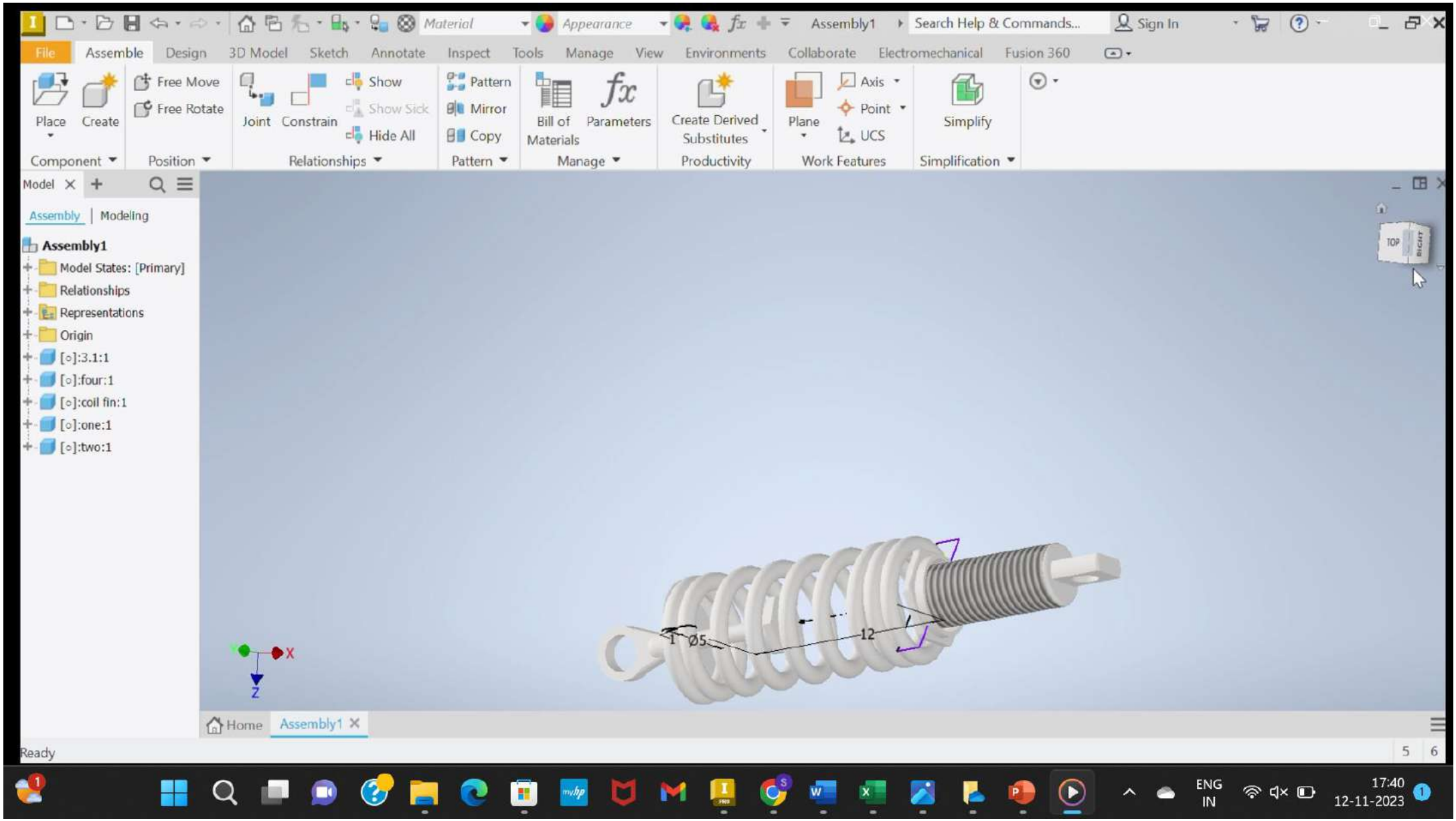

Material
Appearance
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Center of Gravity
Slice Graphics
Degrees of Freedom
Half Section View
iMate Glyphs
Object Visibility
Visibility
Visual Style
Performance
Orthographic
Textures On
Shadows
Ground Plane
Refine Appearance
Reflections
Default Lights
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[○]:3.1:1
[○]:four:1
[○]:coil fin:1
12
Ø5
1
X
Z
Home
Assembly1
Free rotation (click when cursor shows rotate to center view)
ENG
IN
17:34
12-11-2023


Material
Appearance
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Object Visibility
Center of Gravity
Degrees of Freedom
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
Performance
Shadows
Reflections
Orthographic
Ground Plane
Default Light
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[◦]:3.1:1
[◦]:four:1
[◦]:coil fin:1
12
Ø5
1
X
Z
Home
Assembly1
Ready
3
4
ENG
IN
17:35
12-11-2023


Generic
Default
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Object Visibility
Center of Gravity
Degrees of Freedom
iMate Glyphs
Slice Graphics
Half Section View
Visibility
Visual Style
Performance
Shadows
Reflections
Orthographic
Ground Plane
Default Light
Textures On
Refine Appearance
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[o]:3.1:1
[o]:four:1
[o]:coil fin:1
[o]:one:1
TOP
12
1 Ø5
X
Y
Z
Home
Assembly1
Pan the current view (click to cancel)
4
5
ENG
IN
17:38
12-11-2023


Material
Appearance
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Center of Gravity
Slice Graphics
Degrees of Freedom
Half Section View
iMate Glyphs
Object Visibility
Visibility
Visual Style
Performance
Orthographic
Textures On
Shadows
Ground Plane
Refine Appearance
Reflections
Default Light
Ray Tracing
Appearance
User Interface
Clean Screen
Switch
Arrange
New
Reset UI Layout
Windows
Full Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[o]:3.1:1
[o]:four:1
[o]:coil fin:1
[o]:one:1
FRONT
Home
Assembly1
Free rotation (click when cursor shows rotate to center view)
ENG
IN
17:38
12-11-2023


Material
Appearance
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
Point
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplification
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[○]:3.1:1
[○]:four:1
[○]:coil fin:1
[○]:one:1
[○]:two:1
Ø5
12
X
Z
Home
Assembly1
Pick geometry to constrain
ENG
IN
17:39
12-11-2023


Material
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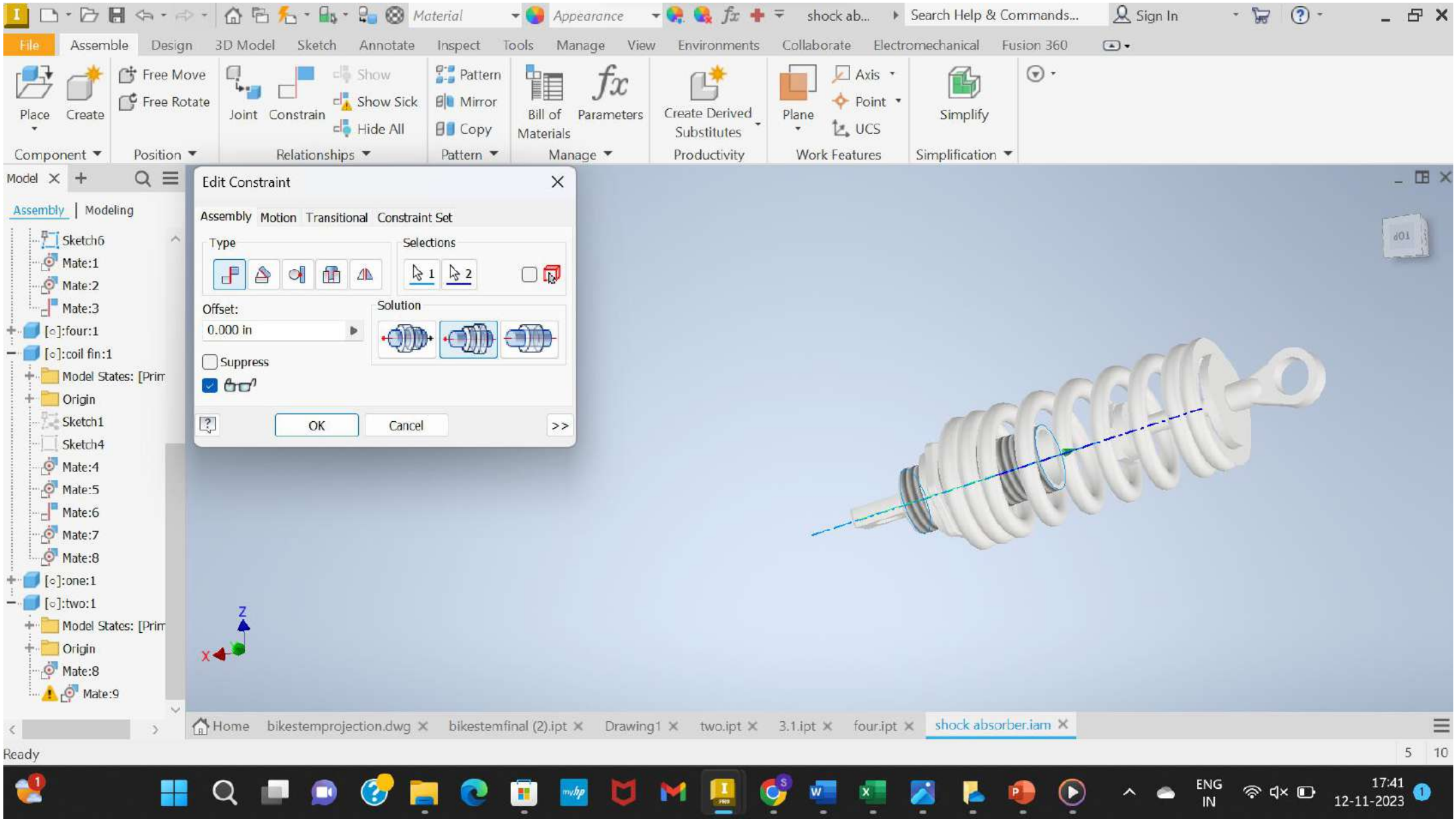
Assembly1
Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
Point
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplification
Model
Assembly
Modeling
Assembly1
Model States: [Primary]
Relationships
Representations
Origin
[o]:3.1:1
[o]:four:1
[o]:coil fin:1
[o]:one:1
[o]:two:1
TOP
RIGHT
Ø5
12
X
Z
Home
Assembly1
Ready
5
6
ENG
IN
17:40
12-11-2023


Material
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shock ab...
Search Help & Commands...
Sign In
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Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
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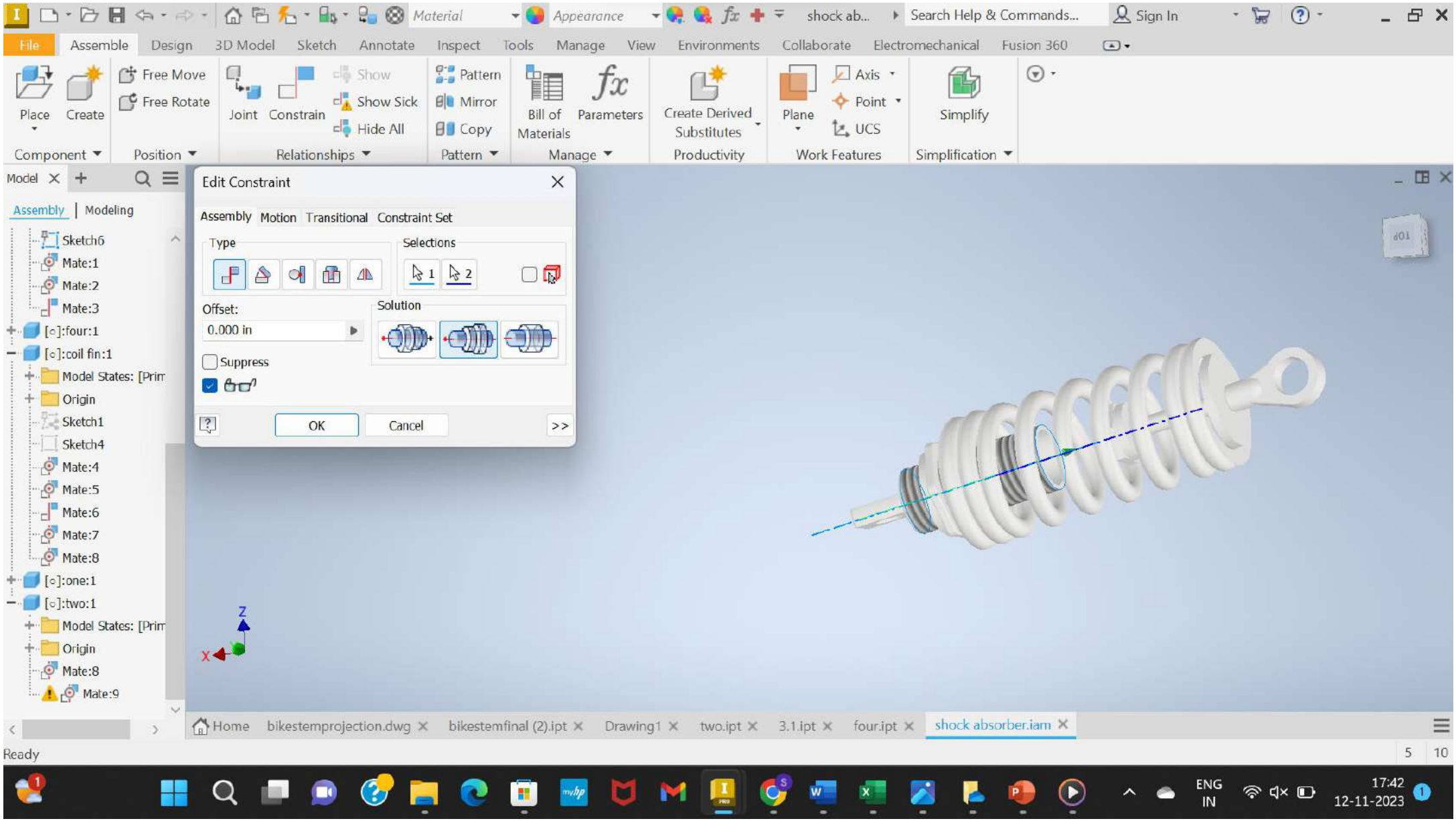
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplification
Model
Assembly
Modeling
Sketch6
Mate:1
Mate:2
Mate:3
[o]:four:1
[o]:coil fin:1
Model States: [Prim
Origin
Sketch1
Sketch4
Mate:4
Mate:5
Mate:6
Mate:7
Mate:8
[o]:one:1
[o]:two:1
Model States: [Prim
Origin
Mate:8
Mate:9
Edit Constraint
Assembly
Motion
Transitional
Constraint Set
Type
Selections
Offset:
0.000 in
Solution
Suppress
OK
Cancel
>>
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
shock absorber.iam
Ready
ENG
IN
17:41
12-11-2023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Search Help & Commands...
Sign In
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Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
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Point
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplification
Model
Assembly
Modeling
Sketch6
Mate:1
Mate:2
Mate:3
[o]:four:1
[o]:coil fin:1
Model States: [Prim
Origin
Sketch1
Sketch4
Mate:4
Mate:5
Mate:6
Mate:7
Mate:8
[o]:one:1
[o]:two:1
Model States: [Prim
Origin
Mate:8
Mate:9
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Constraint Set
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Drawing1
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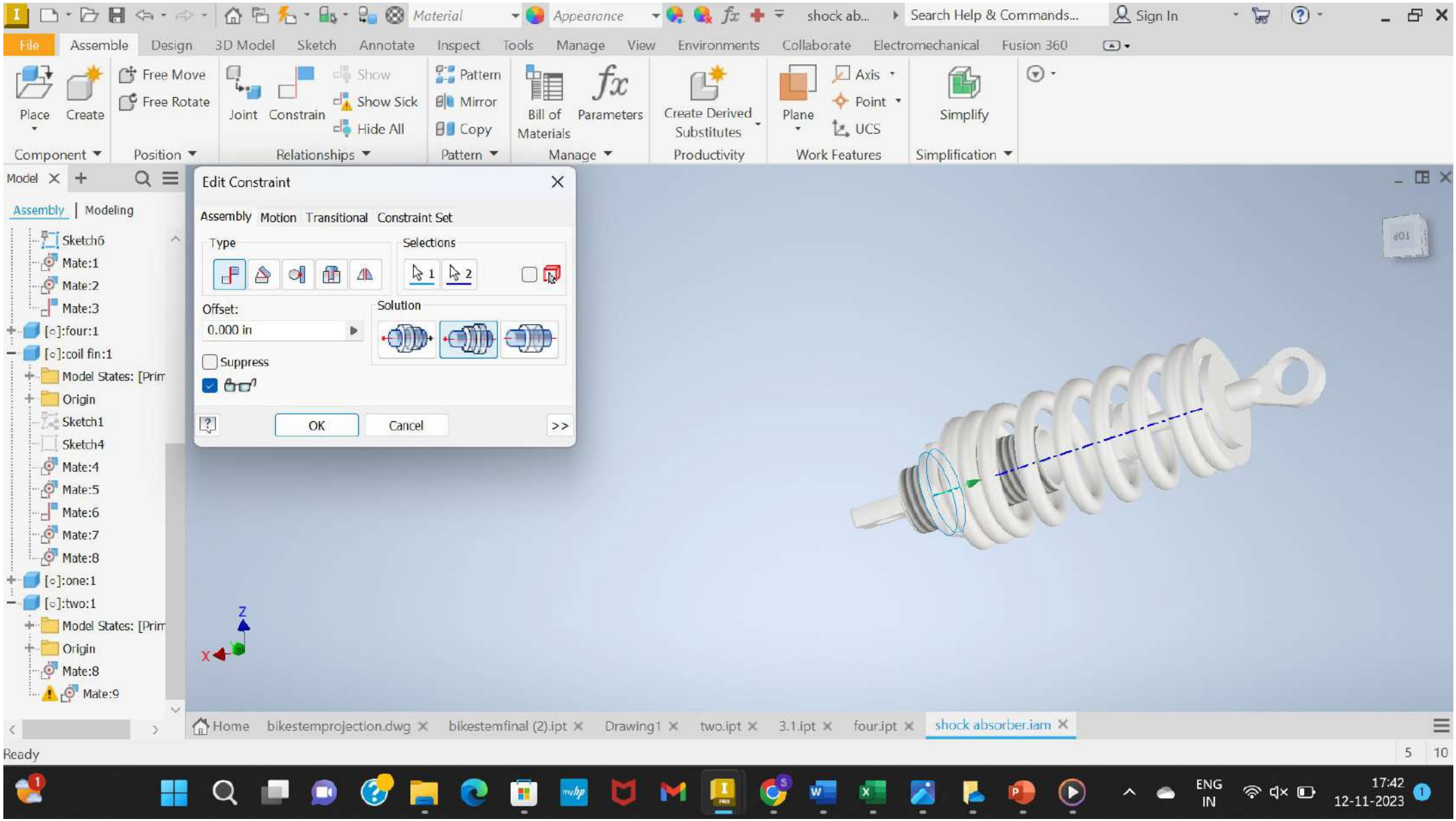
four.ipt
shock absorber.iam
Ready
ENG
IN
17:42
12-11-2023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Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
Point
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplification
Model
Assembly
Modeling
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Mate:2
Mate:3
[o]:four:1
[o]:coil fin:1
Model States: [Prim
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Sketch4
Mate:4
Mate:5
Mate:6
Mate:7
Mate:8
[o]:one:1
[o]:two:1
Model States: [Prim
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Mate:8
Mate:9
Edit Constraint
Assembly
Motion
Transitional
Constraint Set
Type
Selections
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Offset:
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Solution
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OK
Cancel
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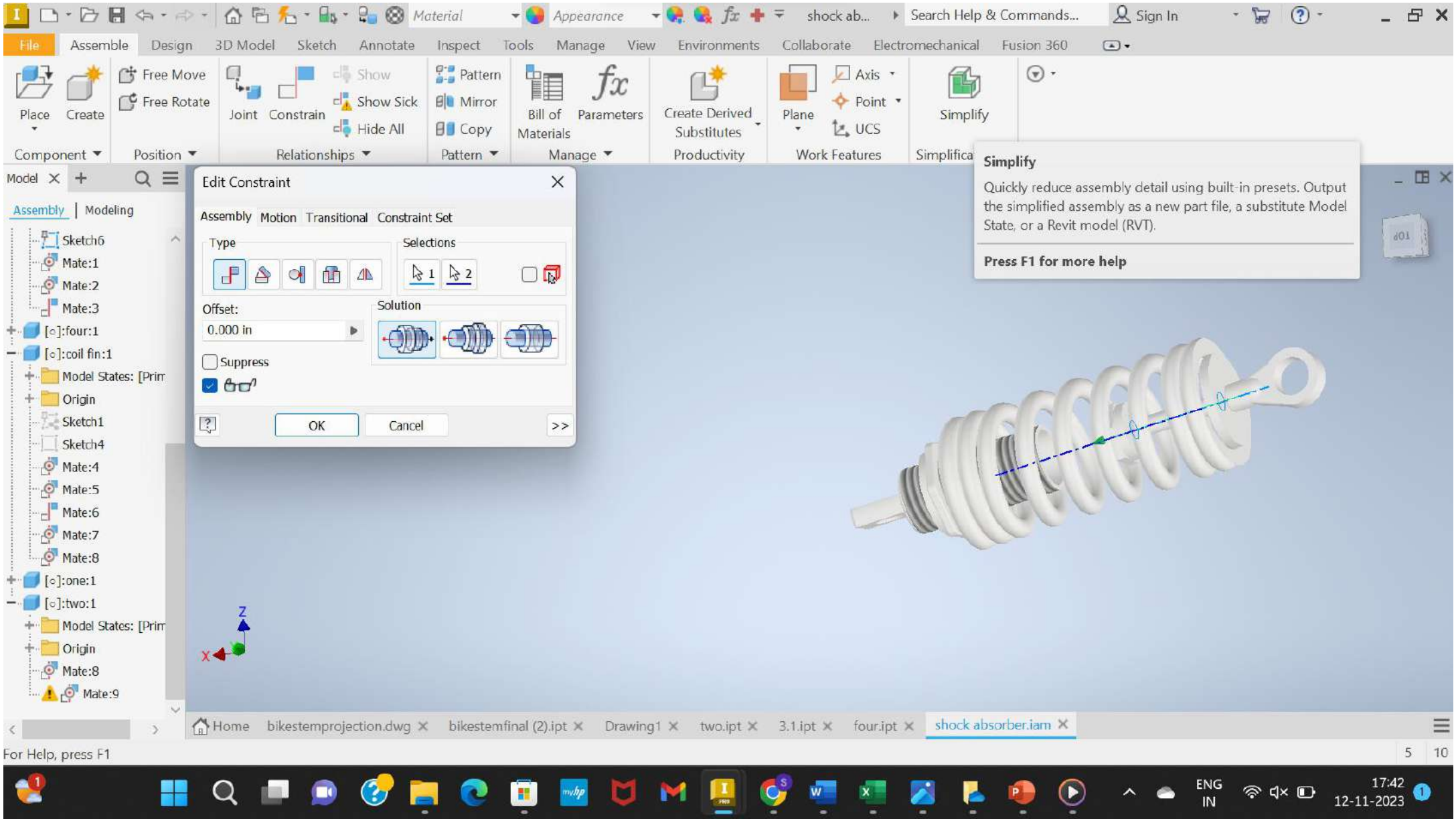
17:42
12-11-2023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Sign In
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Assemble
Design
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Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Electromechanical
Fusion 360
Place
Create
Free Move
Free Rotate
Joint
Constrain
Show
Show Sick
Hide All
Pattern
Mirror
Copy
Bill of Materials
Parameters
Create Derived Substitutes
Plane
Axis
Point
UCS
Simplify
Component
Position
Relationships
Pattern
Manage
Productivity
Work Features
Simplify
Model
Assembly
Modeling
Sketch6
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Mate:2
Mate:3
[o]:four:1
[o]:coil fin:1
Model States: [Prim
Origin
Sketch1
Sketch4
Mate:4
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Mate:6
Mate:7
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[o]:one:1
[o]:two:1
Model States: [Prim
Origin
Mate:8
Mate:9
Edit Constraint
Assembly
Motion
Transitional
Constraint Set
Type
Selections
Offset:
0.000 in
Solution
Suppress
OK
Cancel
>>
Simplify
Quickly reduce assembly detail using built-in presets. Output the simplified assembly as a new part file, a substitute Model State, or a Revit model (RVT).
Press F1 for more help
Z
X
Home
bikestemprojection.dwg
bikestemfinal (2).ipt
Drawing1
two.ipt
3.1.ipt
four.ipt
shock absorber.iam
For Help, press F1
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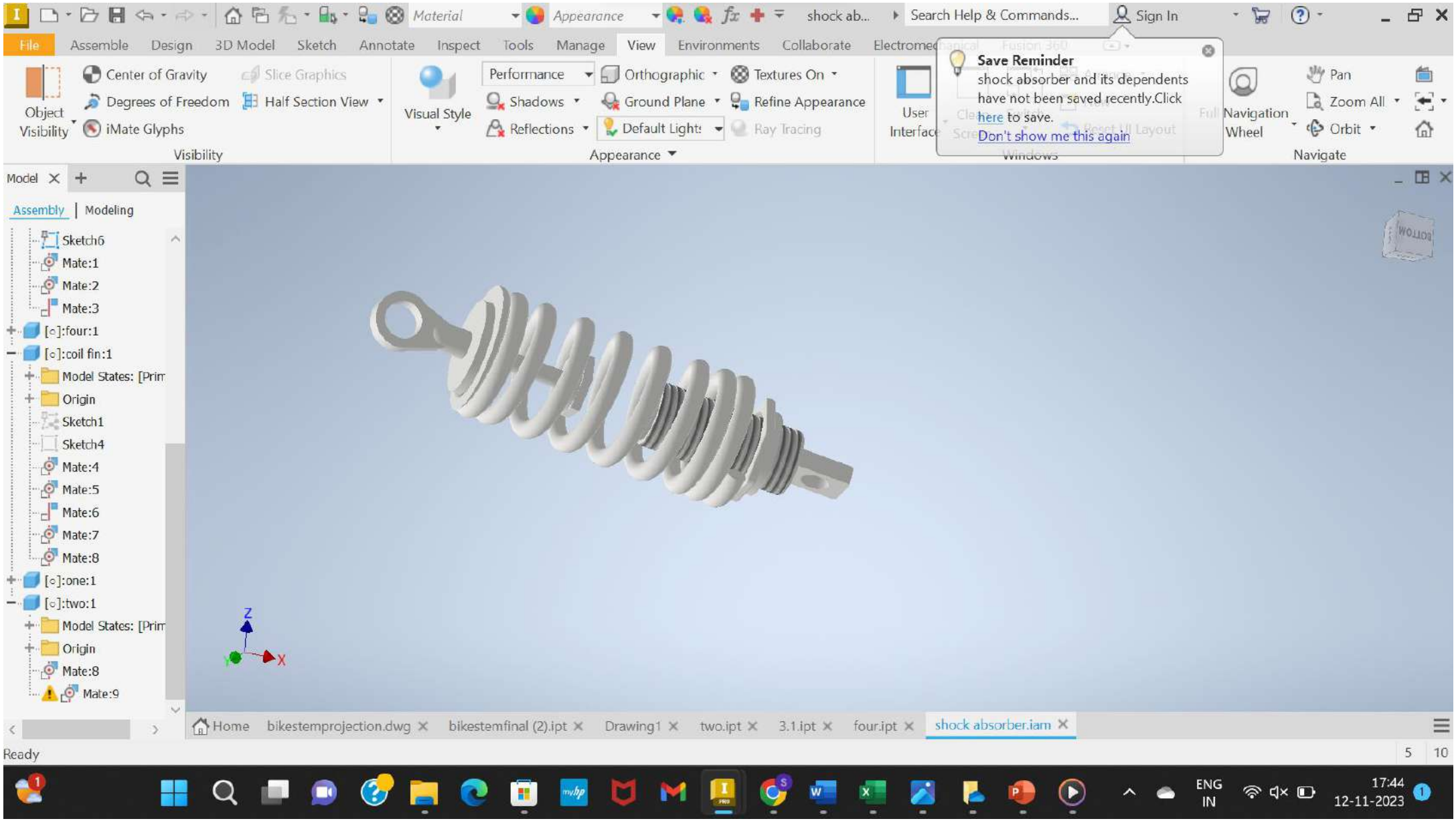
ENG
IN
17:42
12-11-2023


Material
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Search Help & Commands...
Sign In
File
Assemble
Design
3D Model
Sketch
Annotate
Inspect
Tools
Manage
View
Environments
Collaborate
Center of Gravity
Slice Graphics
Degrees of Freedom
Half Section View
Object Visibility
iMate Glyphs
Visibility
Visual Style
Performance
Orthographic
Textures On
Shadows
Ground Plane
Refine Appearance
Reflections
Default Lights
Ray Tracing
Appearance
User Interface
Save Reminder
shock absorber and its dependents have not been saved recently.Click here to save.
Don't show me this again
Navigation Wheel
Pan
Zoom All
Orbit
Navigate
Model
Assembly
Modeling
Sketch6
Mate:1
Mate:2
Mate:3
[o]:four:1
[o]:coil fin:1
Model States: [Prim
Origin
Sketch1
Sketch4
Mate:4
Mate:5
Mate:6
Mate:7
Mate:8
[o]:one:1
[o]:two:1
Model States: [Prim
Origin
Mate:8
Mate:9
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bikestemprojection.dwg
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shock absorber.iam
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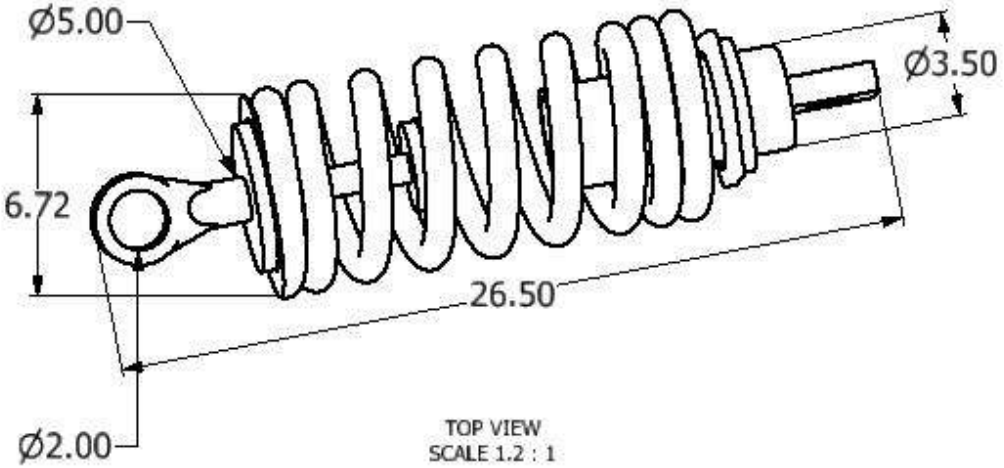
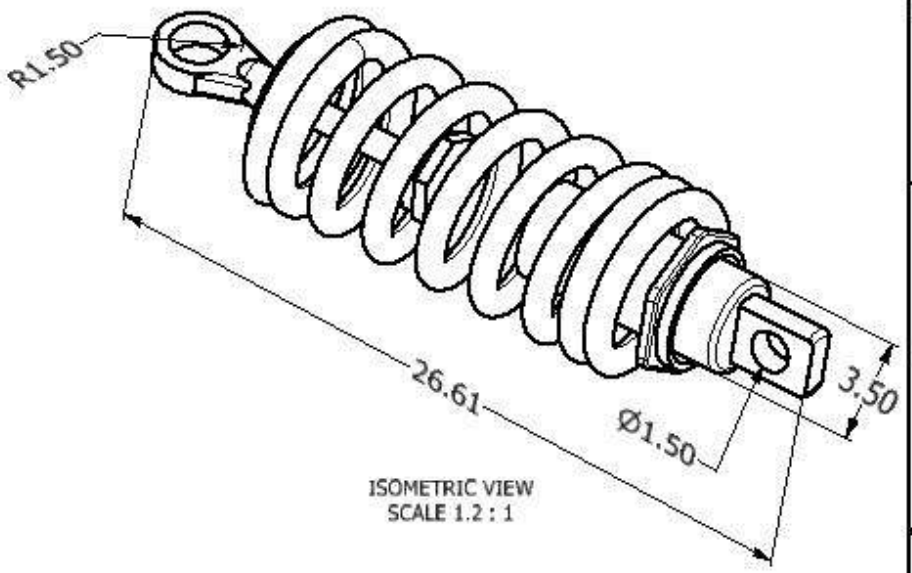
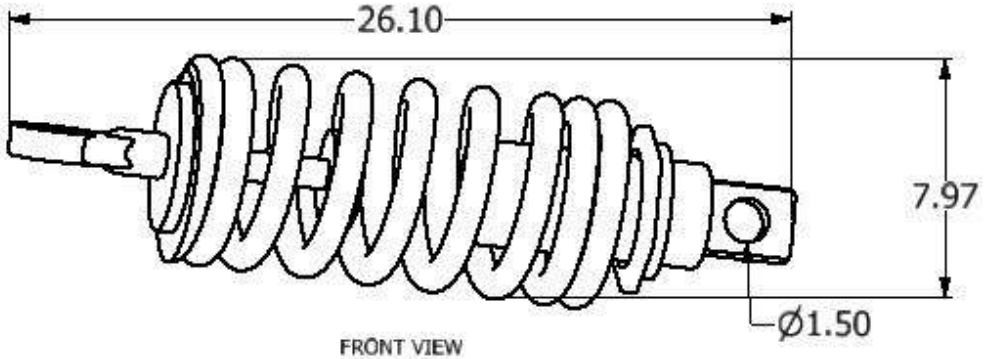
IN
17:44
12-11-2023



TOP VIEW
SCALE 1.2 : 1

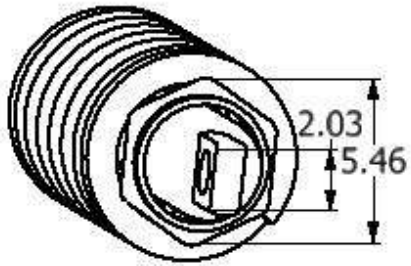


ISOMETRIC VIEW
SCALE 1.2 : 1



FRONT VIEW
SCALE 1.2 : 1

ALL DIMENSIONS IN CM



RIGHT SIDE VIEW
SCALE 1.2 : 1